










# CHRISTY'S RED HOT VINYL 2-PART CONSTRUCTION ADHESIVE (SLOW SET)

## Flyleaf

Date of compilation: 2023-10-03

### Bill of materials

Name of substance	Identifier	Number of pieces	Classification acc. to GHS	Pictograms	Page
RED HOT VINYL 2-PART CONSTRUCTION ADHESIVE (SLOW SET) PART A		1	Skin Corr. 1A / H314 Eye Dam. 1 / H318 Skin Sens. 1 / H317 Carc. 2 / H351 STOT SE 3 / H335 Flam. Liq. 2 / H225 Met. Corr. 1 / H290	   	2 – 25
RED HOT VINYL 2-PART CONSTRUCTION ADHESIVES (SLOW SET) PART B		1	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Carc. 2 / H351 STOT SE 3 / H335 Flam. Liq. 2 / H225	  	26 – 47



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## RED HOT VINYL 2-PART CONSTRUCTION ADHESIVE (SLOW SET) PART A

Version number: 2.0  
Replaces version of: 2022-05-05 (1)

Revision: 2023-10-03

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name

**RED HOT VINYL 2-PART CONSTRUCTION ADHESIVE (SLOW SET) PART A**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

adhesive  
contact adhesive

Uses advised against

Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin.

#### 1.3 Details of the supplier of the safety data sheet

T Christy Enterprises, Inc.  
655 East Ball Road  
Anaheim CA 92805  
United States

Telephone: 714-507-3300  
Website: tchristy.com

#### 1.4 Emergency telephone number

Emergency information service

24 Hours - CHEMTEL: (800) 255-3924; International  
(813) 248-0585

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Hazard class	Category
skin corrosion/irritation	1A
serious eye damage/eye irritation	1
skin sensitization	1
carcinogenicity	2
specific target organ toxicity - single exposure (respiratory tract irritation)	3
flammable liquid	2
substance or mixture corrosive to metals	1

For full text of abbreviations: see SECTION 16.

#### The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. The product is combustible and can be ignited by potential ignition sources.



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### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

- Pictograms

GHS02, GHS05, GHS07,  
GHS08



- Hazard statements

H225	Highly flammable liquid and vapor.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.

- Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P234	Keep only in original container.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dusts or mists.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P302+P352	If on skin: Wash with plenty of water.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P390	Absorb spillage to prevent material damage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling

methyl methacrylate, methacrylic acid, cumene, p-toluene sulfonyl chloride



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### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0.1\%$ .

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0.1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
methyl methacrylate	CAS No 80-62-6	25 – < 50	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 STOT SE 3 / H335 Flam. Liq. 2 / H225
Alumina Trihydrate	CAS No 21645-51-2	25 – < 50	Acute Tox. 4 / H332
methacrylic acid	CAS No 79-41-4	5 – < 10	Acute Tox. 4 / H302 Acute Tox. 3 / H311 Skin Corr. 1A / H314 STOT SE 3 / H335 Flam. Liq. 4 / H227
p-toluene sulfonyl chloride	CAS No 98-59-9	1 – < 5	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1A / H317 Met. Corr. 1 / H290
cumene hydroperoxide	CAS No 80-15-9	< 1	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 3 / H331 Skin Corr. 1B / H314 Eye Dam. 1 / H318 STOT SE 3 / H335 STOT RE 2 / H373 Flam. Liq. 4 / H227 Org. Perox. E / H242
cumene	CAS No 98-82-8	< 1	Carc. 2 / H351 STOT SE 3 / H335 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226

For full text of abbreviations: see SECTION 16.



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### SECTION 4: First-aid measures

#### 4.1 Description of first-aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

##### Following skin contact

Wash with plenty of soap and water.

##### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

#### 4.3 Indication of any immediate medical attention and special treatment needed

none

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

Water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Substance or mixture corrosive to metals.

##### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

##### Flash point

50 °F at 1,013 hPa

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.



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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.



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### 7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

#### - Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

#### - Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

#### - Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

#### - Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

#### - Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	titanium dioxide	13463-67-7	PEL		15					i, dust	29 CFR 1910.1000
US	titanium dioxide	13463-67-7	REL							lowest, appx-A	NIOSH REL
US	titanium dioxide	13463-67-7	TLV®		2.5					r, fine	ACGIH® 2023
US	titanium dioxide	13463-67-7	TLV®		0.2					r, nano	ACGIH® 2023
US	ethyl acrylate	140-88-5	PEL (CA)	5	20	25	100				Cal/ OSHA PEL
US	ethyl acrylate	140-88-5	TLV®	5		15					ACGIH® 2023
US	ethyl acrylate	140-88-5	PEL	25	100						29 CFR 1910.1000



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### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
US	ethyl acrylate	140-88-5	REL							lowest, appx-A	NIOSH REL
US	aluminium, insoluble compounds	21645-51-2	TLV®		1					r	ACGIH® 2023
US	methacrylic acid	79-41-4	PEL (CA)	20	70						Cal/ OSHA PEL
US	methacrylic acid	79-41-4	REL	20 (10 h)	70 (10 h)						NIOSH REL
US	methacrylic acid	79-41-4	TLV®	20							ACGIH® 2023
US	methyl methacrylate	80-62-6	REL	100 (10 h)	410 (10 h)						NIOSH REL
US	methyl methacrylate	80-62-6	TLV®	50		100					ACGIH® 2023
US	methyl methacrylate	80-62-6	PEL	100	410						29 CFR 1910.1000
US	methyl methacrylate (methyl 2-methylprop-2-enoate)	80-62-6	PEL (CA)	50	205	100	410				Cal/ OSHA PEL
US	cumene	98-82-8	REL	50 (10 h)	245 (10 h)						NIOSH REL
US	cumene	98-82-8	TLV®	5							ACGIH® 2023
US	cumene	98-82-8	PEL	50	245						29 CFR 1910.1000
US	cumene (isopropylbenzene)	98-82-8	PEL (CA)	50	245						Cal/ OSHA PEL

#### Notation

appx-A  
Ceiling-C  
dust  
fine  
i  
lowest  
nano  
r  
STEL  
TWA

NIOSH Potential Occupational Carcinogen (Appendix A)  
ceiling value is a limit value above which exposure should not occur  
as dust  
fineparticle  
inhalable fraction  
exposure by all routes should be carefully controlled to levels as low as possible  
nanoparticle  
respirable fraction  
short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)  
time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)





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### Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
methyl methacrylate	80-62-6	DNEL	348.4 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
methyl methacrylate	80-62-6	DNEL	208 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
methyl methacrylate	80-62-6	DNEL	416 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
methyl methacrylate	80-62-6	DNEL	13.67 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Alumina Trihydrate	21645-51-2	DNEL	10.76 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Alumina Trihydrate	21645-51-2	DNEL	10.76 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
methacrylic acid	79-41-4	DNEL	39.3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
methacrylic acid	79-41-4	DNEL	44 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
methacrylic acid	79-41-4	DNEL	4.25 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
p-toluene sulfonyl chloride	98-59-9	DNEL	3.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
p-toluene sulfonyl chloride	98-59-9	DNEL	0.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
cumene hydroperoxide	80-15-9	DNEL	6 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
cumene	98-82-8	DNEL	100 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
cumene	98-82-8	DNEL	250 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
cumene	98-82-8	DNEL	15.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

### Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
methyl methacrylate	80-62-6	PNEC	0.94 mg/l	aquatic organisms	freshwater	short-term (single instance)
methyl methacrylate	80-62-6	PNEC	0.094 mg/l	aquatic organisms	marine water	short-term (single instance)
methyl methacrylate	80-62-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
methyl methacrylate	80-62-6	PNEC	10.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)



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### Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
methyl methacrylate	80-62-6	PNEC	0.102 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
methyl methacrylate	80-62-6	PNEC	1.48 mg/kg	terrestrial organisms	soil	short-term (single instance)
methacrylic acid	79-41-4	PNEC	0.82 mg/l	aquatic organisms	freshwater	short-term (single instance)
methacrylic acid	79-41-4	PNEC	0.082 mg/l	aquatic organisms	marine water	short-term (single instance)
methacrylic acid	79-41-4	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
methacrylic acid	79-41-4	PNEC	3.09 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
methacrylic acid	79-41-4	PNEC	0.309 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
methacrylic acid	79-41-4	PNEC	0.137 mg/kg	terrestrial organisms	soil	short-term (single instance)
p-toluene sulfonyl chloride	98-59-9	PNEC	0.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
p-toluene sulfonyl chloride	98-59-9	PNEC	0.01 mg/l	aquatic organisms	marine water	short-term (single instance)
p-toluene sulfonyl chloride	98-59-9	PNEC	17.3 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
cumene hydroperoxide	80-15-9	PNEC	0.003 mg/l	aquatic organisms	freshwater	short-term (single instance)
cumene hydroperoxide	80-15-9	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
cumene hydroperoxide	80-15-9	PNEC	0.35 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
cumene hydroperoxide	80-15-9	PNEC	0.023 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
cumene hydroperoxide	80-15-9	PNEC	0.002 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
cumene hydroperoxide	80-15-9	PNEC	0.003 mg/kg	terrestrial organisms	soil	short-term (single instance)
cumene	98-82-8	PNEC	0.035 mg/l	aquatic organisms	freshwater	short-term (single instance)
cumene	98-82-8	PNEC	0.004 mg/l	aquatic organisms	marine water	short-term (single instance)



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Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
cumene	98-82-8	PNEC	200 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
cumene	98-82-8	PNEC	3.22 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
cumene	98-82-8	PNEC	0.322 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
cumene	98-82-8	PNEC	0.624 mg/kg	terrestrial organisms	soil	short-term (single instance)

### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance



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Physical state	liquid (paste)
Color	white
Particle	not relevant (liquid)
Odor	sharp

### Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	100.4 °C at 1,013 hPa
Flash point	10 °C at 1,013 hPa
Flash point	10 °C at 1,013 hPa
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	30 hPa at 16.67 °C
Density	1.164 g/cm <sup>3</sup> at 73 °F
Vapor density	this information is not available
Solubility(ies)	not determined

### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	400 °C

### Viscosity

- Dynamic viscosity	550,000 – 750,000 cP at 73 °F
Explosive properties	none
Oxidizing properties	none



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### 9.2 Other information

Temperature class (USA, acc. to NEC 500)

T2 (maximum permissible surface temperature on the equipment:  
300°C)

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition. Substance or mixture corrosive to metals.

If heated:

Risk of ignition, Exothermic polymerization

If exposed to light:

Exothermic polymerization.

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. UV-radiation/sunlight.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### 10.5 Incompatible materials

Oxidizers, Reducing agents

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed or if inhaled.



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### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Alumina Trihydrate	21645-51-2	inhalation: vapor	11 mg/l/4h
Alumina Trihydrate	21645-51-2	inhalation: dust/mist	3.8 mg/l/4h
methacrylic acid	79-41-4	oral	1,320 mg/kg
methacrylic acid	79-41-4	dermal	≥500 mg/kg
cumene hydroperoxide	80-15-9	oral	500 mg/kg
cumene hydroperoxide	80-15-9	dermal	1,100 mg/kg
cumene hydroperoxide	80-15-9	inhalation: vapor	3 mg/l/4h

### Skin corrosion/irritation

Causes severe skin burns and eye damage.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitization

May cause an allergic skin reaction.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Suspected of causing cancer.

### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
methyl methacrylate	80-62-6	3	
cumene	98-82-8	2B	

#### Legend

2B Possibly carcinogenic to humans  
3 Not classifiable as to carcinogenicity in humans

### National Toxicology Program (United States): Report on Carcinogens

Name of substance	CAS No	Classification	Number
cumene	98-82-8	Reasonably anticipated to be a human carcinogen	13th Report on Carcinogens



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### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

May cause respiratory irritation.

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0.1\%$ .

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0.1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Waste treatment-relevant information

Solvent reclamation/regeneration.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.



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### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### SECTION 14: Transport information

#### 14.1 UN number

DOT	UN 2924
IMDG-Code	UN 2924
ICAO-TI	UN 2924

#### 14.2 UN proper shipping name

DOT	Flammable liquid, corrosive, n.o.s.
IMDG-Code	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
ICAO-TI	Flammable liquid, corrosive, n.o.s.
Technical name (hazardous ingredients)	methyl methacrylate, methacrylic acid

#### 14.3 Transport hazard class(es)

DOT	3 (8)
IMDG-Code	3 (8)
ICAO-TI	3 (8)

#### 14.4 Packing group

DOT	II
IMDG-Code	II
ICAO-TI	II

#### 14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

#### 14.6 Special precautions for user

There is no additional information.

#### 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

#### Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration	UN2924, Flammable liquid, corrosive, n.o.s., (contains: methyl methacrylate, methacrylic acid), 3 (8), II
Reportable quantity (RQ)	1,587 lbs (720.6 kg) (methyl methacrylate) (cumene hydroperoxide)
Danger label(s)	3+8





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Special provisions (SP)	IB2, T11, TP2, TP27
ERG No	132

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	-
Danger label(s)	3+8



Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-E, S-C
Stowage category	B

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s)	3+8
-----------------	-----



Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	0,5 L

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

**Toxic Substance Control Act (TSCA)** all ingredients are listed as "ACTIVE".

#### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)



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### Toxics Release Inventory: Specific Toxic Chemical Listings

Name of substance	CAS No	Remarks	Effective date
methyl methacrylate	80-62-6		1987-01-01
cumene hydroperoxide	80-15-9		1987-01-01
cumene	98-82-8		1987-01-01

### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
methyl methacrylate	80-62-6		1 3 4	1000 (454)
cumene hydroperoxide	80-15-9		4	10 (4,54)
cumene	98-82-8		3 4	5000 (2270)

#### Legend

- 1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act  
3 "3" indicates that the source is section 112 of the Clean Air Act  
4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

### Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
methyl methacrylate	80-62-6		CA TACs IRIS Neurotoxicants
cumene	98-82-8		CA NLS CA TACs CDC 4th National Exposure Report IARC Carcinogens - 2B NTP 13th RoC - reasonable OEHH RELs Prop 65

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
methyl methacrylate	80-62-6				1.0 %
cumene hydroperoxide	80-15-9				1.0 %
cumene	98-82-8				0.1 %



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### - Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
methyl methacrylate	80-62-6	A, O	
methacrylic acid	79-41-4	A	
p-toluene sulfonyl chloride	98-59-9	I	

#### Legend

A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH  
I American Industrial Hygiene Association (AIHA), "Workplace Environmental Exposure Level Guides" (1992), available from AIHA  
O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

### - Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
methyl methacrylate	80-62-6		F3 R2
methacrylic acid	79-41-4		CO F2 R2
cumene hydroperoxide	80-15-9		F2 R4
cumene	98-82-8		F3 R1

#### Legend

CO Corrosive  
F2 Flammable - Second Degree  
F3 Flammable - Third Degree  
R1 Reactive - First Degree  
R2 Reactive - Second Degree  
R4 Reactive - Fourth Degree

### - Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER	80-62-6	E
2-PROPENOIC ACID, 2-METHYL-	79-41-4	
HYDROPEROXIDE, 1-METHYL-1-PHENYLETHYL	80-15-9	E
BENZENE, (1-METHYLETHYL)-	98-82-8	E

#### Legend

E Environmental hazard



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### - Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
methyl methacrylate	80-62-6	T, F
methacrylic acid	79-41-4	T, F
cumene hydroperoxide	80-15-9	F
cumene	98-82-8	T, F

#### Legend

F Flammability (NFPA®)  
T Toxicity (ACGIH®)

### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

#### Proposition 65 List of chemicals

Name acc. to inventory	CAS No	Remarks	Type of the toxicity
titanium dioxide	13463-67-7	airborne, unbound particles of respirable size	cancer
cumene	98-82-8		cancer
ethyl acrylate	140-88-5		cancer

### Industry or sector specific available guidance(s)

#### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

#### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).



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Category	Degree of hazard	Description
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

### National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)

#### Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.



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### SECTION 16: Other information, including date of preparation or last revision

#### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-rel- evant
2.3		Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$ .	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$ .	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
9.1	Flash point: 50 °F at 1,013 hPa	Flash point: 10 °C at 1,013 hPa	yes
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$ .	yes
12.6	Endocrine disrupting properties: Information on this property is not available.	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$ .	yes
15.1	Toxic Substance Control Act (TSCA): all ingredients are listed	Toxic Substance Control Act (TSCA): all ingredients are listed as "ACTIVE".	yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH®	American Conference of Governmental Industrial Hygienists
ACGIH® 2023	From ACGIH®, 2023 TLVs® and BEIs® Book. Copyright 2023. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: <a href="http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement">http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement</a>
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate



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Abbr.	Descriptions of used abbreviations
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HHS	Higher hazard substance
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LHS	Lower hazard substance
Met. Corr.	Substance or mixture corrosive to metals
NFPA®	National Fire Protection Association (United States)
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
Org. Perox.	Organic peroxide



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Abbr.	Descriptions of used abbreviations
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H227	Combustible liquid.
H242	Heating may cause a fire.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.





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Code	Text
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.



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### SECTION 1: Identification

#### 1.1 Product identifier

Trade name

**RED HOT VINYL 2-PART CONSTRUCTION ADHESIVES (SLOW SET) PART B**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

adhesive  
contact adhesive

#### 1.3 Details of the supplier of the safety data sheet

T Christy Enterprises, Inc.  
655 East Ball Road  
Anaheim CA 92805  
United States

Telephone: 714-507-3300  
Website: tchristy.com

#### 1.4 Emergency telephone number

Emergency information service

24 Hours - CHEMTEL: (800) 255-3924; International  
(813) 248-0585

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Hazard class	Category
skin corrosion/irritation	2
skin sensitization	1
carcinogenicity	2
specific target organ toxicity - single exposure (respiratory tract irritation)	3
flammable liquid	2

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger
- Pictograms



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GHS02, GHS07, GHS08



### - Hazard statements

H225	Highly flammable liquid and vapor.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.

### - Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.

### - Hazardous ingredients for labelling

methyl methacrylate,  $\alpha$ -methylstyrene, 2,6-di-tert-butyl- $\alpha$ -dimethylamino-p-cresol, proprietary additive

## 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0.1\%$ .

### Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0.1\%$ .



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### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
methyl methacrylate	CAS No 80-62-6	25 – < 50	Skin Irrit. 2 / H315 Skin Sens. 1 / H317 STOT SE 3 / H335 Flam. Liq. 2 / H225
Alumina Trihydrate	CAS No 21645-51-2	25 – < 50	Acute Tox. 4 / H332
PDHP	CAS No 34562-31-7	1 – < 5	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319
$\alpha$ -methylstyrene	CAS No 98-83-9	< 1	Eye Irrit. 2 / H319 Carc. 2 / H351 STOT SE 3 / H335 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226
proprietary additive	CAS No proprietary	< 1	Acute Tox. 3 / H331 Skin Sens. 1B / H317
2,6-di-tert-butyl- $\alpha$ -dimethylamino-p-cresol	CAS No 88-27-7	< 1	Acute Tox. 4 / H302 Eye Irrit. 2 / H319 Skin Sens. 1B / H317

For full text of abbreviations: see SECTION 16.

### SECTION 4: First-aid measures

#### 4.1 Description of first-aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

##### Following skin contact

Wash with plenty of soap and water.

##### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.



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Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

### 4.3 Indication of any immediate medical attention and special treatment needed

none

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet

### 5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

Flash point

50 °F at 1,013 hPa

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains



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### Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

### Appropriate containment techniques

Use of adsorbent materials.

### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

## 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Recommendations

#### - Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

#### - Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Managing of associated risks

#### - Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

#### - Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

#### - Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

#### - Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.



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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
US	aluminium, insoluble compounds	21645-51-2	TLV®		1					r	ACGIH® 2023
US	methyl methacrylate	80-62-6	REL	100 (10 h)	410 (10 h)						NIOSH REL
US	methyl methacrylate	80-62-6	TLV®	50		100					ACGIH® 2023
US	methyl methacrylate	80-62-6	PEL	100	410						29 CFR 1910.1000
US	methyl methacrylate (methyl 2-methylprop-2-enoate)	80-62-6	PEL (CA)	50	205	100	410				Cal/ OSHA PEL
US	α-methylstyrene	98-83-9	REL	50 (10 h)	240 (10 h)	100	485				NIOSH REL
US	α-methylstyrene	98-83-9	TLV®	10							ACGIH® 2023
US	α-methylstyrene	98-83-9	PEL					100	480		29 CFR 1910.1000
US	α-methylstyrene (1-methyl-1-phenylethene)	98-83-9	PEL (CA)	50	240	100	485				Cal/ OSHA PEL

##### Notation

Ceiling-C

r

STEL

TWA

ceiling value is a limit value above which exposure should not occur  
respirable fraction

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

##### Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
methyl methacrylate	80-62-6	DNEL	348.4 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
methyl methacrylate	80-62-6	DNEL	208 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
methyl methacrylate	80-62-6	DNEL	416 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects



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### Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
methyl methacrylate	80-62-6	DNEL	13.67 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Alumina Trihydrate	21645-51-2	DNEL	10.76 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Alumina Trihydrate	21645-51-2	DNEL	10.76 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
α-methylstyrene	98-83-9	DNEL	246 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
α-methylstyrene	98-83-9	DNEL	492 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
α-methylstyrene	98-83-9	DNEL	2.8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
proprietary additive	proprietary	DNEL	1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
proprietary additive	proprietary	DNEL	1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
proprietary additive	proprietary	DNEL	1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
proprietary additive	proprietary	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2,6-di-tert-butyl-α-di-methylamino-p-cresol	88-27-7	DNEL	2.11 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
2,6-di-tert-butyl-α-di-methylamino-p-cresol	88-27-7	DNEL	0.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2,6-di-tert-butyl-α-di-methylamino-p-cresol	88-27-7	DNEL	19.75 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
2,6-di-tert-butyl-α-di-methylamino-p-cresol	88-27-7	DNEL	19.75 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects

### Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
methyl methacrylate	80-62-6	PNEC	0.94 mg/l	aquatic organisms	freshwater	short-term (single instance)
methyl methacrylate	80-62-6	PNEC	0.094 mg/l	aquatic organisms	marine water	short-term (single instance)
methyl methacrylate	80-62-6	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
methyl methacrylate	80-62-6	PNEC	10.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)





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### Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
methyl methacrylate	80-62-6	PNEC	0.102 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
methyl methacrylate	80-62-6	PNEC	1.48 mg/kg	terrestrial organisms	soil	short-term (single instance)
$\alpha$ -methylstyrene	98-83-9	PNEC	0.008 mg/l	aquatic organisms	freshwater	short-term (single instance)
$\alpha$ -methylstyrene	98-83-9	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
$\alpha$ -methylstyrene	98-83-9	PNEC	66.15 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
$\alpha$ -methylstyrene	98-83-9	PNEC	0.583 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
$\alpha$ -methylstyrene	98-83-9	PNEC	0.058 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
$\alpha$ -methylstyrene	98-83-9	PNEC	0.112 mg/kg	terrestrial organisms	soil	short-term (single instance)
proprietary additive	proprietary	PNEC	0 mg/l	aquatic organisms	freshwater	short-term (single instance)
proprietary additive	proprietary	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
proprietary additive	proprietary	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
proprietary additive	proprietary	PNEC	0.136 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
proprietary additive	proprietary	PNEC	0.014 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
proprietary additive	proprietary	PNEC	100 mg/kg	terrestrial organisms	soil	short-term (single instance)
2,6-di-tert-butyl- $\alpha$ -dimethylamino-p-cresol	88-27-7	PNEC	0.3 $\mu$ g/l	aquatic organisms	freshwater	short-term (single instance)
2,6-di-tert-butyl- $\alpha$ -dimethylamino-p-cresol	88-27-7	PNEC	0.03 $\mu$ g/l	aquatic organisms	marine water	short-term (single instance)
2,6-di-tert-butyl- $\alpha$ -dimethylamino-p-cresol	88-27-7	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2,6-di-tert-butyl- $\alpha$ -dimethylamino-p-cresol	88-27-7	PNEC	0.072 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2,6-di-tert-butyl- $\alpha$ -dimethylamino-p-cresol	88-27-7	PNEC	0.007 mg/kg	aquatic organisms	marine sediment	short-term (single instance)



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### Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
2,6-di-tert-butyl- $\alpha$ -di-methylamino-p-cresol	88-27-7	PNEC	0.008 mg/kg	terrestrial organisms	soil	short-term (single instance)

### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state	liquid (paste)
Color	white
Particle	not relevant (liquid)
Odor	sharp



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### Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	100.4 °C at 1,013 hPa
Flash point	10 °C at 1,013 hPa
Flash point	10 °C at 1,013 hPa
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	30 hPa at 16.67 °C
Density	1.116 g/cm <sup>3</sup> at 73 °F
Vapor density	this information is not available
Solubility(ies)	not determined

### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	283 °C

### Viscosity

- Dynamic viscosity	350,000 – 550,000 cP at 73 °F
Explosive properties	none
Oxidizing properties	none

### 9.2 Other information

Temperature class (USA, acc. to NEC 500)	T2A (maximum permissible surface temperature on the equipment: 280°C)
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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition, Exothermic polymerization

If exposed to light:

Exothermic polymerization.

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. UV-radiation/sunlight.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

#### 10.5 Incompatible materials

Oxidizers, Reducing agents

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if inhaled.



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### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Alumina Trihydrate	21645-51-2	inhalation: vapor	11 mg/l/4h
Alumina Trihydrate	21645-51-2	inhalation: dust/mist	3.8 mg/l/4h
PDHP	34562-31-7	oral	>500 mg/kg
PDHP	34562-31-7	dermal	>1,000 mg/kg
proprietary additive	proprietary	inhalation: dust/mist	>0.59 mg/l/4h
2,6-di-tert-butyl- $\alpha$ -dimethylamino-p-cresol	88-27-7	oral	515 mg/kg

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### Respiratory or skin sensitization

May cause an allergic skin reaction.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Suspected of causing cancer.

### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
methyl methacrylate	80-62-6	3	
$\alpha$ -methylstyrene	98-83-9	2B	

#### Legend

2B Possibly carcinogenic to humans  
3 Not classifiable as to carcinogenicity in humans

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

May cause respiratory irritation.

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.



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### SECTION 12: Ecological information

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0.1\%$ .

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0.1\%$ .

#### 12.7 Other adverse effects

Data are not available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### SECTION 14: Transport information

#### 14.1 UN number

DOT	UN 1133
IMDG-Code	UN 1133
ICAO-TI	UN 1133



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### 14.2 UN proper shipping name

DOT	Adhesives
IMDG-Code	ADHESIVES
ICAO-TI	Adhesives

### 14.3 Transport hazard class(es)

DOT	3
IMDG-Code	3
ICAO-TI	3

### 14.4 Packing group

DOT	II
IMDG-Code	II
ICAO-TI	II

### 14.5 Environmental hazards

	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	PDHP

### 14.6 Special precautions for user



There is no additional information.

### 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

#### Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration	UN1133, Adhesives, 3, II, environmentally hazardous
Reportable quantity (RQ)	2,497 lbs (1,134 kg) (methyl methacrylate) (1,3-butadiene)
Danger label(s)	3, fish and tree
 	
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	149, B52, IB2, T4, TP1, TP8
ERG No	128



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### International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant YES (hazardous to the aquatic environment)

Danger label(s) 3, fish and tree



Special provisions (SP) -

Excepted quantities (EQ) E2

Limited quantities (LQ) 5 L

EmS F-E, S-D

Stowage category B

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Environmental hazards YES (hazardous to the aquatic environment)

Danger label(s) 3



Special provisions (SP) A3

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

**Toxic Substance Control Act (TSCA)** all ingredients are listed as "ACTIVE".

#### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings

Name of substance	CAS No	Remarks	Effective date
methyl methacrylate	80-62-6		1987-01-01

### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)





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### - List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
methyl methacrylate	80-62-6		1 3 4	1000 (454)

#### Legend

- 1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act  
3 "3" indicates that the source is section 112 of the Clean Air Act  
4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

### Right to Know Hazardous Substance List

#### - Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
methyl methacrylate	80-62-6		CA TACs IRIS Neurotoxics
α-methylstyrene	98-83-9		IARC Carcinogens - 2B Prop 65

#### - Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
methyl methacrylate	80-62-6				1.0 %

#### - Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
methyl methacrylate	80-62-6	A, O	

#### Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH  
O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

#### - Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
methyl methacrylate	80-62-6		F3 R2
α-methylstyrene	98-83-9		F2

#### Legend

- F2 Flammable - Second Degree  
F3 Flammable - Third Degree  
R2 Reactive - Second Degree



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### - Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER	80-62-6	E

#### Legend

E Environmental hazard

### - Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
methyl methacrylate	80-62-6	T, F
$\alpha$ -methylstyrene	98-83-9	T

#### Legend

F Flammability (NFPA®)  
T Toxicity (ACGIH®)

### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

#### Proposition 65 List of chemicals

Name acc. to inventory	CAS No	Remarks	Type of the toxicity
$\alpha$ -methylstyrene	98-83-9		cancer

### Industry or sector specific available guidance(s)

#### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	2	temporary or minor injury may occur
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

#### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## RED HOT VINYL 2-PART CONSTRUCTION ADHESIVES (SLOW SET) PART B

Version number: 2.0  
Replaces version of: 2022-05-05 (1)

Revision: 2023-10-03

Category	Degree of hazard	Description
Flammability	3	material that can be ignited under almost all ambient temperature conditions
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

### National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	not all ingredients are listed
CA	NDSL	not all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)

#### Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NDSL	Non-domestic Substances List (NDSL)
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act



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### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information, including date of preparation or last revision

#### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-rel- evant
2.2		- Precautionary statements: change in the listing (table)	yes
2.3		Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a con- centration of $\geq 0.1\%$ .	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$ .	yes
8.1		Occupational exposure limit values (Workplace Ex- posure Limits): change in the listing (table)	yes
9.1	Flash point: 50 °F at 1,013 hPa	Flash point: 10 °C at 1,013 hPa	yes
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: According to the results of its assessment, this sub- stance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$ .	yes
12.6	Endocrine disrupting properties: Information on this property is not available.	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$ .	yes
15.1	Toxic Substance Control Act (TSCA): all ingredients are listed	Toxic Substance Control Act (TSCA): all ingredients are listed as "ACTIVE".	yes
15.1		Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Sub- stances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH®	American Conference of Governmental Industrial Hygienists
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Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HHS	Higher hazard substance
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LHS	Lower hazard substance
NFPA®	National Fire Protection Association (United States)
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer



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Abbr.	Descriptions of used abbreviations
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.



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Code	Text
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.