



Safety Data Sheet

Red Hi Strength Threadlocker

Section 1. Identification

Product Identifier Red Hi Strength Threadlocker
Synonyms 49455
Manufacturer Stock Numbers 146820

Recommended use Refer to Technical Information
Uses advised against Refer to Technical Information

Manufacturer Contact Address Dynatex *a division of* Soudal
350 Ring Road
Elizabethtown, KY, 42701 USA

Phone
(270) 769-3385

Emergency Phone
(800) 424-9300
CHEMTREC

Fax
(270) 769-6418

Section 2. Hazards Identification

Classification CARCINOGENICITY - Category 2
SENSITIZATION - SKIN - Category 1
SERIOUS EYE DAMAGE /EYE IRRITATION - Category 2A
SKIN CORROSION/IRRITATION - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) - Category 3

Signal Word Warning

Pictogram



Hazard Statements

Causes serious eye irritation
Causes skin irritation
May cause an allergic skin reaction
May cause damage to organs through prolonged or repeated exposure
May cause respiratory irritation
Suspected of causing cancer

Precautionary Statements

Response

Call a poison center/doctor if you feel unwell.
Get medical advice/attention if you feel unwell.
If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If on skin: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (read label before use)
Take off contaminated clothing and wash it before reuse.
Wash contaminated clothing before reuse.

Prevention

Avoid breathing dust/fume/gas/mist/ vapors/spray.
Contaminated work clothing must not be allowed out of the workplace.
Do not breathe dust/fume/gas/mist/ vapors/spray.
Do not handle until all safety precautions have been read and understood.
Obtain special instructions before use.
Use only outdoors or in a well-ventilated area.
Wash face, hands and any exposed skin thoroughly after handling.
Wear eye protection/face protection.
Wear protective gloves.
Wear protective gloves/protective clothing/eye protection/face protection.

Storage

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national /international regulations.

Ingredients of unknown toxicity

8.5%

Hazards not Otherwise Classified

Additional Information

None known

Section 3. Ingredients

CAS	Ingredient Name	Weight %
41637-38-1	Bisphenol A ethoxylate dimethacrylate	5% - 9%
25852-47-5	Polyethylene Glycol 200 Dimethacrylate	30% - 39%
868-77-9	Hydroxyethyl alkyl methacrylate	20% - 29%
39382-25-7	Bisphenol A Fumurate Resin	20% - 29%
80-15-9	α,α -dimethylbenzyl hydroperoxide	1% - 4%
57-55-6	Propylene glycol	1% - 4%
	Modified Epoxy Acrylate Oligomer	1% - 4%
114-83-0	2'-phenylacetohydrazide	$\leq 1\%$
98-82-8	Cumene	$\leq 1\%$

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Description of first aid measures

After inhalation:

Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

If symptoms persist consult doctor.

Information for doctor

Most important symptoms and effects, both acute and delayed:

No further relevant information available

Indication of any immediate medical attention and special treatment needed:

No further relevant information available

Section 5. Fire Fighting Measures

Suitable Extinguishing Media

Carbon dioxide, sand, extinguishing powder. Do not use water.

Unsuitable Extinguishing Media

Water

Special hazards arising from the substance or mixture

No further relevant information available

Advice for firefighters

Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Wear protective clothing.
Environmental precautions	Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents Dispose of the collected material according to regulations.
Reference to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

Section 7. Handling and Storage

Handling	Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. No special precautions are necessary if used correctly.
Conditions for safe storage, including any incompatibilities	Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
Specific end use(s)	No further relevant information available.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Bisphenol A ethoxylate dimethacrylate	N/A	N/A	N/A
	Polyethylene Glycol 200 Dimethacrylate	N/A	N/A	N/A

Hydroxyethyl alkyl methacrylate	N/A	N/A	N/A
Bisphenol A Fumurate Resin	N/A	N/A	N/A
α,α -dimethylbenzyl hydroperoxide	None	None	N/A
Propylene glycol	N/A	N/A	N/A
Modified Epoxy Acrylate Oligomer	N/A	N/A	N/A
2'-phenylacetohydrazide	N/A	N/A	N/A
Cumene	N/A	N/A	N/A

Personal Protective Equipment

Goggles, Gloves

Additional information about design of technical systems

No further data; see item 7

Components with limit values that require monitoring at the workplace

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

80-15-9 dimethylbenzyl hydroperoxide
WEEL Long-term value: 6 mg/m³, 1 ppm Skin

57-55-6 propane-1,2-diol
WEEL Long-term value: 10 mg/m³

98-82-8 cumene
PEL Long-term value: 245 mg/m³, 50 ppm Skin
REL Long-term value: 245 mg/m³, 50 ppm Skin
TLV Long-term value: (246) NIC-5 mg/m³, (50) NIC-1 ppm NIC-A3

Additional information:

The lists that were valid during the creation were used as basis.

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Breathing equipment:

Not required.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Personal protective equipment

As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

Body protection:

Protective work clothing

Section 9. Physical and Chemical Properties

Physical State	Fluid
Color	Red
Odor	Characteristic
Odor Threshold	Not determined
Solubility	Not miscible
Partition coefficient Water/n-octanol	Not determined
VOC%	1.59%
Viscosity	Not determined
Specific Gravity	1.1
Density lbs/Gal	9.1795
Pounds per Cubic Foot	N/A
Flash Point	94C (201.2F)
FP Method	N/A
pH	Not determined
Melting Point	Undetermined
Boiling Point	>195C (>383F)
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	Not determined
Flammability	Not applicable
Decomposition Temperature	Not determined
Auto-ignition Temperature	Not selfigniting

Vapor Pressure	<= 1.3 hPa @ 68C
Vapor Density	N/A

Note The above information is not intended for use in preparing product specifications. Contact Soudal before writing specifications.

Section 10. Stability and Reactivity

Reactivity	No further relevant information available.
Thermal decomposition / conditions to be avoided	No decomposition if used according to specifications.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to avoid	No further relevant information available.
Incompatible materials	No further relevant information available.
Hazardous decomposition products	Aldehyde Hydrocarbons

Section 11. Toxicological Information

Acute toxicity	LD/LC50 values that are relevant for classification: ATE (Acute Toxicity Estimate) Oral LD50 15,284 mg/kg (rat) Dermal LD50 27,945 mg/kg (rat) Inhalative LC50/4 h 12,296 mg/l (rat) 868-77-9 2-hydroxyethyl methacrylate Oral LD50 5,050 mg/kg (rat) 80-15-9 dimethylbenzyl hydroperoxide Oral LD50 382 mg/kg (rat) Dermal LD50 500 mg/kg (rat) Inhalative LC50/4 h 220 mg/l (rat) 57-55-6 propane-1,2-diol Oral LD50 2,000 mg/kg (rat) Dermal LD50 20,800 mg/kg (rabbit) 114-83-0 2'-phenylacetohydrazide Oral LD50 270 mg/kg (mouse) 98-82-8 cumene Oral LD50 1,400 mg/kg (rat) Dermal LD50 12,300 mg/kg (rabbit) Inhalative LC50/4 h 24.7 mg/l (mouse)
----------------	---

Primary irritant effect	on the skin: Irritant to skin and mucous membranes. on the eye: Irritating effect.
Sensitization	Sensitization possible through skin contact.
Additional toxicological information	The product shows the following dangers according to internally approved calculation methods for preparations: Irritant
Carcinogenic categories	IARC (International Agency for Research on Cancer) CAS: 98-82-8 cumene 2B NTP (National Toxicology Program) CAS: 98-82-8 cumene R CAS: 130-15-4 1,4-naphthoquinone R OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed.

Section 12. Ecological Information

Aquatic toxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
Additional ecological information	Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Results of PBT and vPvB assessment	PBT: Not applicable. vPvB: Not applicable.
Other adverse effects	No further relevant information available.

Section 13. Disposal

Waste Disposal Recommendation	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Uncleaned packaging Recommendations	Disposal must be according to official regulations.

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	Not regulated
DOT Classification	Not regulated
Packing Group	Not regulated

Section 15. Regulatory Information

SARA Section 355 (extremely hazardous substances):
None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):
80-15-9 dimethylbenzyl hydroperoxide
98-82-8 cumene

TSCA (Toxic Substances Control Act)

Deionized water ACTIVE
2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate ACTIVE
2-hydroxyethyl methacrylate ACTIVE
2-Butenedioic acid (2E)-, polymer with α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -hydroxypoly[oxy(methyl-1,2-ethanediyl)]] ACTIVE
Ethoxylated Bisphenol A Dimethacrylate Esters ACTIVE
Modified Epoxy Acrylate Oligomer *
dimethylbenzyl hydroperoxide ACTIVE
Saccharin ACTIVE
propane-1,2-diol ACTIVE
2'-phenylacetohydrazide ACTIVE
cumene ACTIVE
2-Phenyl-2-propanol ACTIVE
tetrasodium ethylenediaminetetraacetate ACTIVE
N-isopropylhydroxylamine ACTIVE
1-hydroxyethane-1,1-diylbis(phosphonic acid) ACTIVE
Colorant ACTIVE
1,4-naphthoquinone ACTIVE
Colorant ACTIVE
phosphorous acid ACTIVE
2-Propanone, oxime ACTIVE

Hazardous Air Pollutants

98-82-8 cumene
130-15-4 1,4-naphthoquinone

California Prop 65

Chemicals known to cause cancer:
41637-38-1 Ethoxylated Bisphenol A Dimethacrylate Esters
98-82-8 cumene

Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

Carcinogenic categories

EPA (Environmental Protection Agency)
98-82-8 cumene D, CBD

TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

Section 16. Other Information

Revision Date

1/15/2020

Disclaimer

The data contained herein is based upon information that Soudal believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.