SAFETY DATA SHEET



1. Identification

Product identifier NuLock, Flange Sealant (4289-04)

Other means of identification Not available.

Recommended use Sealant

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Nu-Calgon

Address 2611 Schuetz Road

St. Louis, MO 63043

United States

Telephone 314-469-7000 / 800-554-5499

E-mail Not available.

Emergency phone number 1-800-424-9300 (CHEMTREC)

Supplier See above.

2. Hazard identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1
Sensitization, skin Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards Not classified.

WHMIS 2015 defined hazards

Label elements

Not classified



Signal word Danger

Hazard statement Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May

cause respiratory irritation.

Precautionary statement

Prevention Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed

out of the workplace. Wash thoroughly after handling. Wear protective gloves, protective clothing

and eye protection. Avoid breathing mist or vapor.

Response IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention.

Specific treatment (see information on this label). Take off contaminated clothing and wash it

perore reuse

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER or doctor if you feel unwell.

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

Disposal Dispose of container in accordance with local, regional, national and international regulations.

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

None known

WHMIS 2015: Physical Hazard(s) not otherwise

classified (PHNOC)

Hazard(s) not otherwise

classified (HNOC)

None known

None known.

Supplemental information None.

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3. Composition/Information on ingredients			
Mixture			
Chemical name	Common name and synonyms	CAS number	%
2-oxepanone Polymer With 2-ethyl-2-(hydroxymethyl)-1,3-p nediol And 5-isocyanato-1-(isocyanatomethen 1,3,3-trimethylcyclohexane, 2-hydroxyethyl Acrylate-termina	ropa nyl)-	68987-79-1	45-70*
2-Propenoic acid		79-10-7	1-5*
Acetic acid, 2-phenylhydrazide		114-83-0	0.1-1*
Hydroperoxide, 1-methyl-1-phenylethyl		80-15-9	0.1-1*
Polyethylene glycol methacrylat	e	25852-47-5	15-40*
All concentrations are in percent by	y weight unless ingredient is a gas. Gas conce	ntrations are in percent by volu	me.
Composition comments	US GHS: The exact percentage (concentration secret in accordance with paragraph (i) of §1	on) of composition has been wi	
	*CANADA GHS: The exact percentage (conc trade secret.	entration) of composition has b	oeen withheld as a
	4. First-aid measures	3	
Inhalation	IF INHALED: Remove person to fresh air and CENTER or doctor if you feel unwell.	l keep comfortable for breathin	g. Call a POISON
Skin contact	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Specific treatment (see information on this label). Take off contaminated clothing and wash it before reuse.		
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.		
Ingestion	Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.		
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.		
General information	If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Keep out of reach of children.		
	5. Fire-fighting measur	es	
Suitable extinguishing media	Carbon dioxide. Dry chemical powder. Alcoho	ol foam.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as the		
Specific hazards arising from the chemical	During fire, gases hazardous to health may b	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	rotective clothing must be wor	n in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.		
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.		
General fire hazards	No unusual fire or explosion hazards noted.		
Hazardous combustion products	n May include and are not limited to: Oxides of carbon. Oxides of nitrogen.		
	6. Accidental release mea	sures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep pe appropriate protective equipment and clothing touch damaged containers or spilled material Ensure adequate ventilation. Local authorities contained. For personal protection, see section	g during clean-up. Avoid breatl unless wearing appropriate pr s should be advised if significa	ning mist/vapor. Do not otective clothing.

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Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes,

streams, ponds or public waters.

7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid breathing mists or vapors. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

Value

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Keep out of reach of children.

8. Exposure controls/Personal protection

Occupational exposure limits

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value
2-Propenoic acid (CAS 79-10-7)	TWA	5.9 mg/m3
70 10 7)		2 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	
2-Propenoic acid (CAS 79-10-7)	TWA	2 ppm	

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value
2-Propenoic acid (CAS 79-10-7)	TWA	2 ppm

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	
2-Propenoic acid (CAS 79-10-7)	TWA	2 ppm	

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety) Components

	. 11	
2-Propenoic acid (CAS	TWA	5.9 mg/m3
79-10-7)		2 nnm

Type

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	Туре	Value	
2-Propenoic acid (CAS 79-10-7)	15 minute	4 ppm	
	8 hour	2 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	
2-Propenoic acid (CAS	TWA	2 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

79-10-7)

Components	Туре	Value	
2-Propenoic acid (CAS 79-10-7)	TWA	6 mg/m3	
, ,		2 ppm	

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ComponentsTypeValueHydroperoxide,
1-methyl-1-phenylethyl
(CAS 80-15-9)TWA6 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Canada - Alberta OELs: Skin designation

2-Propenoic acid (CAS 79-10-7)

Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

2-Propenoic acid (CAS 79-10-7)

Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

2-Propenoic acid (CAS 79-10-7) Danger of cutaneous absorption

Canada - Ontario OELs: Skin designation

2-Propenoic acid (CAS 79-10-7)

Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

2-Propenoic acid (CAS 79-10-7) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

2-Propenoic acid (CAS 79-10-7)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

2-Propenoic acid (CAS 79-10-7) Danger of cutaneous absorption

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Propenoic acid (CAS 79-10-7)

Can be absorbed through the skin.

US WEEL Guides: Skin designation

Hydroperoxide, 1-methyl-1-phenylethyl (CAS 80-15-9) Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

1 ppm

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields.

Skin protection

Hand protection Impervious gloves. Confirm with reputable supplier first.

Other Wear appropriate chemical resistant clothing. As required by employer code. Use of an impervious

apron is recommended.

Not available.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the

workplace. When using do not eat or drink.

9. Physical and chemical properties

AppearanceLiquidPhysical stateLiquid.FormLiquid.ColorPurpleOdorMild

Odor thresholdNot available.pHNot available.Melting point/freezing pointNot available.

Initial boiling point and boiling range

Pour point Not available.

Specific gravity Not available.

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Partition coefficient (n-octanol/water)

Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flormobility limit lower

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure
Not available.
Vapor density
Not available.
Relative density
Not available.
Solubility(ies)
Not available.
Not available.
Not available.
Viscosity
Not available.
Not available.

Other information Does not sustain combustion.

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

VOC 0.8 %

10. Stability and reactivity

Reactivity This product may react with strong acids. This product may react with strong alkalis and oxidizing

agents.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Chemical stability Material is stable under normal conditions.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Can

polymerize exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

Do not mix with other chemicals.

Strong oxidizing agents.

Incompatible materials

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

11. Toxicological information

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Ingestion May cause stomach distress, nausea or vomiting.

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

Rash.

Information on toxicological effects

Acute toxicity Not known.

Components Species Test Results

2-Propenoic acid (CAS 79-10-7)

Acute Dermal

LD50 Rabbit > 2000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Rat > 5.1 mg/L, 4 Hours, ECHA

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Components Species Test Results

Oral

LD50 Rat 1000 - 2000 mg/kg, ECHA

Acetic acid, 2-phenylhydrazide (CAS 114-83-0)

AcuteDermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Mouse 270 mg/kg, HSDB

Hydroperoxide, 1-methyl-1-phenylethyl (CAS 80-15-9)

AcuteDermal

LD50 Rabbit 134 mg/kg, ECHA

Inhalation

LC50 Mouse 1370 mg/m3, ECHA

Oral

LD50 Rat 382 mg/kg, ECHA

Polyethylene glycol methacrylate (CAS 25852-47-5)

Acute
Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Not available

Skin corrosion/irritation Causes skin irritation.

Exposure minutesNot available.Erythema valueNot available.Oedema valueNot available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

2-Propenoic acid (CAS 79-10-7) Irritant

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity See below.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Propenoic acid (CAS 79-10-7) Volume 19, Supplement 7, Volume 71 - 3 Not classifiable as to

carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Teratogenicity Not available.

Specific target organ toxicity - May cause respiratory irritation.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

See below

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful.

Ecotoxicity

Ecotoxicological data

Components Species Test Results

2-Propenoic acid (CAS 79-10-7)

 Algae
 IC50
 Algae
 0.17 mg/L, 72 Hours

 Crustacea
 EC50
 Daphnia
 270 mg/L, 48 Hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Mobility in soilNo data available.Mobility in generalNot available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

 $contents/container\ in\ accordance\ with\ local/regional/national/international\ regulations.$

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

Transport of Dangerous Goods (TDG) Proof of Classification

Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions

Not applicable

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

2-Propenoic acid (CAS 79-10-7) Listed. Hydroperoxide, 1-methyl-1-phenylethyl (CAS 80-15-9) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely

No

Yes

hazardous substance

SARA 311/312 Hazardous

chemical

Classified hazard Skin corrosion or irritation

categoriesSerious eye damage or eye irritation
Respiratory or skin sensitization

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
2-Propenoic acid	79-10-7	1-5*	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

See below

2-Propenoic acid (CAS 79-10-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulations

US - California Hazardous Substances (Director's): Listed substance

2-Propenoic acid (CAS 79-10-7)

Listed.

US - Illinois Chemical Safety Act: Listed substance

2-Propenoic acid (CAS 79-10-7)

Hydroperoxide, 1-methyl-1-phenylethyl (CAS 80-15-9)

US - Louisiana Spill Reporting: Listed substance

2-Propenoic acid (CAS 79-10-7) Listed. Hydroperoxide, 1-methyl-1-phenylethyl (CAS 80-15-9)

US - Minnesota Haz Subs: Listed substance

2-Propenoic acid (CAS 79-10-7) Listed.

US - Texas Effects Screening Levels: Listed substance

2-Propenoic acid (CAS 79-10-7) Listed. Acetic acid, 2-phenylhydrazide (CAS 114-83-0) Listed. Hydroperoxide, 1-methyl-1-phenylethyl (CAS 80-15-9)

Polyethylene glycol methacrylate (CAS 25852-47-5) Listed.

US. Massachusetts RTK - Substance List

2-Propenoic acid (CAS 79-10-7)

Hydroperoxide, 1-methyl-1-phenylethyl (CAS 80-15-9)

US. New Jersey Worker and Community Right-to-Know Act

2-Propenoic acid (CAS 79-10-7)

Hydroperoxide, 1-methyl-1-phenylethyl (CAS 80-15-9)

US. Pennsylvania Worker and Community Right-to-Know Law

2-Propenoic acid (CAS 79-10-7)

Hydroperoxide, 1-methyl-1-phenylethyl (CAS 80-15-9)

US. Rhode Island RTK

2-Propenoic acid (CAS 79-10-7)

Hydroperoxide, 1-methyl-1-phenylethyl (CAS 80-15-9)

US. California Proposition 65

Not Listed.

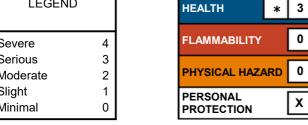
Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0



0 3 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date 18-December-2020

Version #

Effective date 18-December-2020

Prepared by Nu-Calgon Technical Service Phone: (314) 469-7000

Further information Not available.

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.