Printing date 03/06/2019

Reviewed on 02/28/2019

# 1 Identification

# - Product identifier

- Trade name: Tif-Lock Threadlocker-Blue

- Part number: 8500, 8501, 8504, 8505
- Application of the substance / the mixture Thread Locking
- Details of the supplier of the safety data sheet
   Manufacturer/Supplier:
  - Tifco Industries, Inc PO Box 40277 Houston, TX 77240 USA Telephone: +1-281-571-6000 Email: tifco@tifco.com Website: www.tifco.com

# - Information department: Product safety department

- Emergency telephone number:

United States: 1-800-424-9300 International: +1-703-527-3887

## 2 Hazard(s) identification

#### - Classification of the substance or mixture

GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2A H319 Causes serious eye irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

#### Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



- Signal word Warning

 Hazard-determining components of labeling: 2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate methacrylic acid, monoester with propane-1,2-diol dimethylbenzyl hydroperoxide 2'-phenylacetohydrazide

#### - Hazard statements

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- Precautionary statements
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash face, hands and any exposed skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.

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# Safety Data Sheet acc. to OSHA HCS

Printing date 03/06/2019

P272

P280

P280

P280

P304+P340

# Trade name: Tif-Lock Threadlocker-Blue

P305+P351+P338 If in

	(Control of pages 1)
Contaminated work clothing must not be allowed out of the workplace.	(Contd. of page 1)
Wear protective gloves/protective clothing/eye protection/face protection.	
Wear protective gloves.	
Wear eye protection / face protection.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
3 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present ar	nd easy to do.
Continue rinsing.	
IF exposed or concerned: Get medical advice/attention	

	Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### - Classification system: - NFPA ratings (scale 0 - 4)

Health = 2 Fire = 1

0 Reactivity = 0

- HMIS-ratings (scale 0 - 4)

HEALTH1FIRE1FIRE1FIRE1REACTIVITY0Reactivity=

# - Other hazards

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- vPvB: Not applicable.

# 3 Composition/information on ingredients

# - Chemical characterization: Mixtures

- Description: Mixture of the substances listed below with nonhazardous additions.

# - Dangerous components:

CAS: 25852-47-5	2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate	50 - 59%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
CAS: 27813-02-1	methacrylic acid, monoester with propane-1,2-diol	5 – 9%
	Eye Irrit. 2A, H319; Skin Sens. 1, H317	
CAS: 67762-90-7	Amorphous Silica	1 – 4%
	Combustible Dust	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	1 – 4%
	Self-react. F, H242; Org. Perox. E, H242; Acute Tox. 3, H311; STOT RE 2, H373; Asp. Tox. 1, H304; Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H335; Flam. Liq. 4, H227	
CAS: 114-83-0	2'-phenylacetohydrazide	≤ 1%
	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 98-82-8	cumene	≤ 1%
	Flam. Liq. 3, H226; Carc. 2, H351; Asp. Tox. 1, H304; Acute Tox. 4, H302; STOT SE 3, H335	

# - Description of first aid measures

# - After inhalation:

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.

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# Trade name: Tif-Lock Threadlocker-Blue

(Contd. on page 4)

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	(Contd. of pa
Fire-	fighting measures
	guishing media
	uitable extinguishing agents:
	D2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. D2, sand, extinguishing powder. Do not use water.
	or safety reasons unsuitable extinguishing agents: Water
	ial hazards arising from the substance or mixture No further relevant information available.
	ce for firefighters
	rotective equipment:
	ear self-contained respiratory protective device. ear fully protective suit.
	dental release measures
Dore	onal precautions, protective equipment and emergency procedures
	protective equipment. Keep unprotected persons away.
Ensure	e adequate ventilation
	protective clothing.
	<i>conmental precautions:</i> Do not allow to enter sewers/ surface or ground water. ods and material for containment and cleaning up:
	bus and material for containment and cleaning up: b with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure	e adequate ventilation.
	t flush with water or aqueous cleansing agents
	se of the collected material according to regulations. <i>rence to other sections</i>
	ection 7 for information on safe handling.
See S	ection 8 for information on personal protection equipment.
See S	ection 13 for disposal information.
Hand	Iling and storage
Hand	lina:
	recautions for safe handling
Er	nsure good ventilation/exhaustion at the workplace.
	event formation of aerosols.
	o special precautions are necessary if used correctly. formation about protection against explosions and fires:
	eep ignition sources away - Do not smoke.
	otect against electrostatic charges.
Cond	litions for safe storage, including any incompatibilities
	torage:
	<ul> <li>Requirements to be met by storerooms and receptacles: No special requirements.</li> </ul>
	- 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.
Spec	ific end use(s) No further relevant information available.
Expo	osure controls/personal protection
Addi	tional information about design of technical systems: No further data; see item 7.
	rol parameters
	omponents with limit values that require monitoring at the workplace:
Th	e following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
	this time, the other constituents have no known exposure limits.
	80-15-9 dimethylbenzyl hydroperoxide
WEEL	Long-term value: 6 mg/m <sup>3</sup> , 1 ppm Skin
CAS:	98-82-8 cumene
PEL	Long-term value: 245 mg/m <sup>3</sup> , 50 ppm
	Skin
REL	Long-term value: 245 mg/m <sup>3</sup> , 50 ppm
	Skin
TLV	Long-term value: (246) NIC-0.5 mg/m <sup>3</sup> , (50) NIC-0.1 ppm

(Contd. of page 3)

# Safety Data Sheet acc. to OSHA HCS

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#### Trade name: Tif-Lock Threadlocker-Blue

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- Additional information: The lists that were valid during the creation were used as basis.

# - Exposure controls

- Personal protective equipment:
  - 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:



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. 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

9 Physical and chemical properties	
<ul> <li>Information on basic physical and che</li> <li>General Information</li> </ul>	mical properties
- Appearance:	
- Form:	Liquid
- Color:	Blue
- Odor:	Characteristic
<ul> <li>Odor threshold:</li> </ul>	Not determined.
- pH-value:	Not determined.
- Change in condition	
<ul> <li>Melting point/Melting range:</li> </ul>	Undetermined.
<ul> <li>Boiling point/Boiling range:</li> </ul>	≥ 200 °C (≥ 392 °F)
- Flash point:	95 °C (203 °F)
<ul> <li>Flammability (solid, gaseous):</li> </ul>	Not applicable.
- Decomposition temperature:	Not determined.
- Auto igniting:	Product is not selfigniting.
- Danger of explosion:	Product does not present an explosion hazard.
- Explosion limits:	
- Lower:	Not determined.
- Upper:	Not determined.
- Vapor pressure at 20 °C (68 °F):	n.a. hPa
- Density at 20 °C (68 °F):	~ 1.07 g/cm <sup>3</sup> (~ 8.92915 lbs/gal)
- Relative density	Not determined.
- Vapor density	Not determined.
- Evaporation rate	Not determined.

# Trade name: Tif-Lock Threadlocker-Blue

	(Contd. of pa
<ul> <li>Solubility in / Miscibility with</li> </ul>	
- Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/	water): Not determined.
- Viscosity:	
- Dynamic:	Not determined.
- Kinematic:	Not determined.
- Solvent content:	
<ul> <li>Organic solvents:</li> </ul>	0.6 %
- Water:	1.3 %
- VOC content:	0.64 %
	~ 6.8 g/l / ~ 0.06 lb/gal
- Solids content:	86.5 %
Other information	No further relevant information available.
	on available. Inditions to be avoided: No decomposition if used according to specifications. No dangerous reactions known.
Conditions to avoid No further relevar Incompatible materials: No further re Hazardous decomposition product	nt information available. elevant information available.
Conditions to avoid No further relevar Incompatible materials: No further re	nt information available. elevant information available.

#### Information on toxicological effects

# - Acute toxicity:

- LI	D/LC50 v	alues that are relevant for classification:
ATE (Acut	te Toxicity	r Estimate)
Oral	LD50	5,991 mg/kg (rat)
Dermal	LD50	29,467 mg/kg (rat)
Inhalative	LC50/4 h	12,966 mg/l (rat)
CAS: 80-1	5-9 dimet	hylbenzyl hydroperoxide
Oral	LD50	382 mg/kg (rat)
Dermal	LD50	500 mg/kg (rat)
Inhalative	LC50/4 h	220 mg/l (rat)
CAS: 114-	-83-0 2'-ph	enylacetohydrazide
Oral	LD50	270 mg/kg (mouse)
CAS: 98-8	2-8 cume	ne
Oral	LD50	1,400 mg/kg (rat)
Dermal	LD50	12,300 mg/kg (rabbit)
Inhalative	LC50/4 h	24.7 mg/l (mouse)
- Pi	rimary iri	itant 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
CAS: 13463-67-7	titanium dioxide	2B
CAS: 111-76-2	2-butoxyethanol	3

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- NTP (National Toxicology Prog	(Contd. of page
CAS: 98-82-8 cumene	
CAS: 130-15-4 1,4-naphthoquinone	F
- OSHA-Ca (Occupational Safety	/ & Health Administration)
None of the ingredients is listed.	
Ecological information	
- Toxicity	
- Aquatic toxicity: No further relevant inform	nation available.
<ul> <li>Persistence and degradability No further re</li> </ul>	elevant information available.
Behavior in environmental systems:	
<ul> <li>Bioaccumulative potential No further rel</li> <li>Mobility in soil No further relevant informa</li> </ul>	
- Additional ecological information:	llion available.
- General notes:	
Water hazard class 1 (Self-assessment): slig	
<ul> <li>Do not allow undiluted product or large quantility</li> <li>Results of PBT and vPvB assessment</li> </ul>	ities of it to reach ground water, water course or sewage system.
- <b>PBT:</b> Not applicable.	
- <b>vPvB:</b> Not applicable.	
- Other adverse effects No further relevant info	ormation available.
Disposal considerations	
- Uncleaned packagings:	of together with household garbage. Do not allow product to reach sewage system.
<ul> <li>- Recommendation: Must not be disposed</li> <li>- Uncleaned packagings:</li> <li>- Recommendation: Disposal must be made</li> </ul>	
- Recommendation: Must not be disposed - Uncleaned packagings: - Recommendation: Disposal must be mad - Transport information	
<ul> <li>- Recommendation: Must not be disposed</li> <li>- Uncleaned packagings:</li> <li>- Recommendation: Disposal must be made</li> </ul>	
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<ul> <li>Recommendation: Must not be disposed</li> <li>Uncleaned packagings:         <ul> <li>Recommendation: Disposal must be mad</li> </ul> </li> <li>Transport information         <ul> <li>UN-Number</li> <li>DOT, ADN, IMDG, IATA</li> </ul> </li> </ul>	de according to official regulations.
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- Section 355 (extremely hazardous substances): None of the ingredients is listed. - Section 313 (Specific toxic chemical listings): CAS: 80-15-9 dimethylbenzyl hydroperoxide CAS: 98-82-8 cumene CAS: 111-76-2 2-butoxyethanol

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		(Contd. of pag
	Toxic Substances Control Act):	
	2-enoyloxy)ethyl 2-methylprop-2-enoate	
Tetraethylene gl		
	monoester with propane-1,2-diol	
Amorphous Silic		
dimethylbenzyl h	ydroperoxide	
Saccharin		
propane-1,2-diol		
2'-phenylacetohy	drazide	
cumene		
2-Phenyl-2-prop	anol	
titanium dioxide		
	lenediaminetetraacetate	
N-isopropylhydro		
1,4-naphthoquin	one	
Colorant		
Alumina Trihydra		
2-Propanone, ox		
	nyldec-5-yne-4,7-diol	
2-butoxyethanol		
Deionized water		
	A new (21st Century Act): (Substances not listed)	
	5 2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate	
CAS: 114-83-0	2'-phenylacetohydrazide	
- Haz	ardous Air Pollutants	
CAS: 98-82-8	cumene	
CAS: 130-15-4	1,4-naphthoquinone	
- Propos	ition 65	
- Che	micals known to cause cancer:	
CAS: 98-82-8 c	Imene	
- Ché	micals known to cause reproductive toxicity for females:	
None of the ingr		
	micals known to cause reproductive toxicity for males:	
None of the ingr		
- Che	micals known to cause developmental toxicity:	
None of the ingr	edients is listed.	
- Carcin	ogenic categories	
	(Environmental Protection Agency)	
	cumene	D, CE
CAS: 111-76-2		NL
	-	
	( (Threshold Limit Value established by ACGIH)	1
	7 titanium dioxide	/
CAS: 111-76-2	2-butoxyethanol	
	SH-Ca (National Institute for Occupational Safety and Health)	
CAS: 13463-67-	7 titanium dioxide	
Chemical safe	ety assessment: A Chemical Safety Assessment has not been carried out.	

# 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: ND Industries, Inc. - Safety, Health and Environmental Affaires

# - Contact: Safety, Health and Environmental Affaires

- Date of preparation / last revision 03/06/2019 / 59
- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists

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EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Flam. Liq. 4: Flammable liquids – Category 4 Self-react. F: Self-reactive substances and mixtures – Type E/F Org. Perox. E: Organic peroxides – Type E/F Org. Perox. E: Organic peroxides – Type E/F Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 1 Carc. 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1

- \* Data compared to the previous version altered.

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