

Printing date 07/13/2022

1 Identification

- Product identifier

- Trade name: Permanent Strength Gel Threadlocker

- **Part number:** 74262

- Application of the substance / the mixture Thread Locking

- Details of the supplier of the safety data sheet

Manufacturer/Supplier: IBS, Inc. 740 Clay St NW Auburn, WA 98001 Tel: (253) 804-8666 Toll Free in USA: 1-800-678-1906 Email: info@industrialbolt.com Website: www.industrialbolt.com

- Information department: Product Safety Department

- *Emergency telephone number:* United States : 1-800-255-3924 International (toll-free): 1-813-248-0585 International: 1-813-248-0573

2 Hazard(s) identification

- Classification of the substance or mixture

GHS08 Health hazard

H351 Suspected of causing cancer.

Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure.

Safety Data Sheet

acc. to OSHA HCS



Carcinogenicity 2

Skin Irrititation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Specific Target Organ Toxicity - Single Exposure 3	H335 May cause respiratory irritation.

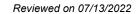
- Label elements

- 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:
- methacrylic acid, monoester with propane-1,2-diol 2-(2-methylprop-2-enoyloxy)ethyl 2-methylprop-2-enoate dimethylbenzyl hydroperoxide octadecyl methacrylate
- 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
- P201 Obtain special instructions before use.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- 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/protective clothing/eye protection/face protection.
- P280 Wear protective gloves.



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Daga	(Contd. of page 1)
P280	Wear eye protection / face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	B If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
	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.
hazards	

- 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	30 – 39%
	Skin Irrititation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 27813-02-1	methacrylic acid, monoester with propane-1,2-diol	20 – 29%
	Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
	Acrylic polymer	10 – 19%
	Combustible Dust	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	1 – 4%
	Self-reactive substances and mixtures - Type F, H242; Organic Peroxides - Type E, H242; Acute Toxicity - Inhalation 3, H331; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304; Skin Corrosion 1B, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Specific Target Organ Toxicity - Single Exposure 3, H335; Flammable Liquids 4, H227	-
CAS: 32360-05-7	octadecyl methacrylate	≤ 1%
	Skin Irrititation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 114-83-0	2'-phenylacetohydrazide	≤ 1%
	Acute Toxicity - Oral 4, H302; Skin Irrititation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 98-82-8	cumene	≤ 1%
	Flammable Liquids 3, H226; Carcinogenicity 2, H351; Aspiration Hazard 1, H304; Acute Toxicity - Oral 4, H302; Specific Target Organ Toxicity - Single Exposure 3, H335	

4 First-aid measures

- 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.

5 Fire-fighting measures

- Extinguishing media

- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture No further relevant information available.

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- Advice for firefighters

- Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** 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.
- 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.

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.
- Information about protection against explosions and fires: No special measures required.

- Conditions for safe storage, including any incompatibilities

- Storage:
 - 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.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.

- Control parameters

- Components with limit values that require monitoring at the workplace:

At this time, the other constituents have no known exposure limits.

CAS: 8	30-15-9 dimethylbenzyl hydroperoxide
WEEL	Long-term value: 6 mg/m³, 1 ppm Skin
CAS: 9	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: 5 ppm A3
	- 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.

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- Protection of hands:

Protective

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. 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: Required use of safety glasses
- Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and che	emical properties
- General Information	
- Appearance:	
- Form:	Fluid
- Color:	Red
- Odor:	Characteristic
- Odor threshold:	Not determined.
- pH-value:	Not determined.
- Change in condition	
 Melting point/Melting range: 	Undetermined.
 Boiling point/Boiling range: 	≥ 200 °C (≥ 392 °F)
- Flash point:	95 °C (203 °F)
- Flammability (solid, gaseous):	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):	≤ 0.1 hPa
- Density at 20 °C (68 °F):	~ 1.1 g/cm³ (~ 9.1795 lbs/gal)
- Relative density	Not determined.
- Vapor density	Not determined.
- Evaporation rate	Not determined.
- Solubility in / Miscibility with	
- Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/wat	er): Not determined.
- Viscosity:	
- Dynamic:	Not determined.
- Kinematic:	Not determined.
- Solvent content:	
 Organic solvents: 	0.9 %
- Water:	0.4 %
- VOC content:	0.90 %
	~ 9.9 g/l / ~ 0.08 lb/gal
A I I I I	67.3 %
 Solids content: 	07.5 %

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10 Stability and reactivity

- Reactivity No further relevant information available.

- Chemical stability

- 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

11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

- LL	D/LC50 v	alues that are relevant for classification:
ATE (Acut	te Toxicity	r Estimate)
Oral	LD50	23,935 mg/kg (rat)
Dermal	LD50	31,328 mg/kg (rat)
Inhalative	LC50/4 h	13,784 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	ienylacetohydrazide
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)
Π.		itant officit

- 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

C (International Agency for Research on Cancer)	
cumene	2B
naphthalene	2B
Mixed Xylenes	3
ethylbenzene	2B
(National Toxicology Program)	
umene	R
I,4-naphthoquinone	R
naphthalene	R
IA-Ca (Occupational Safety & Health Administration)	
dients is listed.	

- Toxicity

- Aquatic toxicity: No further relevant information available.

- Persistence and degradability No further relevant information available.

- Behavior in environmental systems:

- Bioaccumulative potential No further relevant information available.

- Mobility in soil No further relevant information available.

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- Additional ecological information: - General notes: 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. 13 Disposal considerations - Waste treatment methods - Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. - Uncleaned packagings:

- Recommendation: Disposal must be made according to official regulations.

14 Transport information		
- UN-Number - DOT, ADN, IMDG, IATA	not regulated	
- UN proper shipping name - DOT, ADN, IMDG, IATA	not regulated	
 Transport hazard class(es) 		
- DOT, ADN, IMDG, IATA - Class	not regulated	
- Packing group - DOT, IMDG, IATA	not regulated	
- Environmental hazards: - Marine pollutant:	No	
- Special precautions for user	Not applicable.	
 Transport in bulk according to Annex II and the IBC Code 	of MARPOL73/78 Not applicable.	
- UN "Model Regulation":	not regulated	

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

- Sara		
- Sec	tion 355 (extremely hazardous substances):	
None of the ingr	edients is listed.	
- Sec	tion 313 (Specific toxic chemical listings):	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	
CAS: 98-82-8	cumene	
CAS: 91-20-3	naphthalene	
CAS: 1330-20-7	Mixed Xylenes	
CAS: 100-41-4	ethylbenzene	
- TSCA (Toxic Substances Control Act):	
2-(2-methylprop-	2-enoyloxy)ethyl 2-methylprop-2-enoate	ACTIVE
methacrylic acid	, monoester with propane-1,2-diol	ACTIVE
Acrylic polymer		ACTIVE
Amorphous Silic	a	ACTIVE
coumarone-inde	ne resins	ACTIVE
Saccharin		ACTIVE
dimethylbenzyl h	ydroperoxide	ACTIVE
octadecyl metha	crylate	ACTIVE
docosyl methacr	ylate	ACTIVE
propane-1,2-diol		ACTIVE
		(Contd. on page 7

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Deionized water		(Contd. of AC	TIVE
2'-phenylacetoh		AC	TIVE
icosyl methacry	late	-	TIVE
cumene		-	TIVE
	pleum), hydrotreated light naphthenic		TIVE
Colorant		*	
2-Phenyl-2-prop			TIVE
N-isopropylhydr			TIVE
	ylenediaminetetraacetate	-	TIVE
	oxane, trimethyl terminated		TIVE
	e-1,1-diylbis(phosphonic acid)	-	TIVE
1,4-naphthoquir			TIVE
	eum), aromcontg.		TIVE
Colorant		-	TIVE
naphthalene			TIVE
2-Propanone, or		-	TIVE
octamethylcyclo		-	TIVE
	yclohexasiloxane	-	TIVE
	10,10-decamethylcyclopentasiloxane	-	TIVE
phosphorous ac	zid	AC	TIVE
- Haz	zardous Air Pollutants		
CAS: 98-82-8	cumene		
CAS: 130-15-4	1,4-naphthoquinone		
CAS: 91-20-3	naphthalene		
CAS: 1330-20-7	7 Mixed Xylenes		
CAS: 100-41-4			
- Propos	sition 65		
	emicals known to cause cancer:		
	cumene		
CAS: 91-20-3			
CAS: 100-41-4	•		
	emicals known to cause reproductive toxicity for females:		
-	redients is listed.		
	emicals known to cause reproductive toxicity for males:		
None of the ingr	redients is listed.		
- Ch	emicals known to cause developmental toxicity:		
	redients is listed.		
0 i			
	nogenic categories		
	A (Environmental Protection Agency)		
CAS: 98-82-8	cumene		CBE
CAS: 91-20-3	naphthalene		CBE
	7 Mixed Xylenes		
CAS: 100-41-4		D	
- TL	V (Threshold Limit Value)		
CAS: 91-20-3	naphthalene		A
	7 Mixed Xylenes		A
CAS: 1330-20-7	ethylbenzene		A
CAS: 1330-20-7 CAS: 100-41-4			_
CAS: 100-41-4			
CAS: 100-41-4 - <i>NIC</i>	DSH-Ca (National Institute for Occupational Safety and Health)		
CAS: 100-41-4 - <i>NIC</i> None of the ingr			

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: Safety, Health and Environmental Affairs

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- Classification System: - HMIS-ratings (scale 0 - 4) HEALTH 🔁 Health = *2
 FIRE
 1
 Fire = 1

 REACTIVITY
 0
 Reactivity = 0
 - NFPA ratings (scale 0 - 4) Health = 2 Fire = 1 Reactivity = 0 - Date of preparation / last revision 07/13/2022 / 58 - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods IMDIC: International Mariume Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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) VCC: Whittle Compared (USA EI) 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 Flammable Liquids 3: Flammable liquids – Category 3 Flammable Liquids 4: Flammable liquids – Category 4 Self-reactive substances and mixtures - Type F: Self-reactive substances and mixtures – Type E/F Sen-reactive substances and finktures – type F. Sen-reactive Organic Peroxides – Type E. Organic peroxides – Type E/F Acute Toxicity - Oral 4: Acute toxicity – Category 4 Acute Toxicity – Inhalation 3: Acute toxicity – Category 3 Skin Corrosion 1B: Skin corrosion/irritation – Category 1B Skin Irrititation 2: Skin corrosion/irritation – Category 2 Eye Damage 1: Serious eye damage/eye irritation – Category 1 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Sensitization - Skin 1: Skin sensitisation - Category 1 Carcinogenicity 2: Carcinogenicity - Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2 Aspiration Hazard 1: Aspiration hazard – Category 1

- * Data compared to the previous version altered.

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