

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 01/16/2026

Reviewed on 01/16/2026

1 Identification

- Product identifier

- **Trade name:** Tif-Lock™ Retaining Compound

- **Synonyms:** Stick - General Purpose Retaining Compound

- Other means of identification

- **Part number:** 9214

- Application of the substance / the mixture

Assembly adhesive

Retaining agents

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

TIFCO Industries, Inc

PO Box 40277

Houston, TX 77240

USA

Telephone: 800-868-4326

- Emergency telephone number:

United States: 800-255-3924

2 Hazard(s) identification

- Classification of the substance or mixture



GHS08 Health hazard

Carcinogenicity 2

H351 Suspected of causing cancer.

Specific target organ toxicity (repeated exposure) 2

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



GHS07

Skin irritation 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



GHS07 GHS08

- **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

Cumene

2'-phenylacetohydrazide

Methacryloxypropyltrimethoxysilane

- Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

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H335 May cause respiratory irritation.

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

- Precautionary statements

- P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 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/hearing protection.
 P280 Wear protective gloves.
 P280 Wear eye protection / face protection.
 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.
 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.
 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.

- Additional information:

5 % of the mixture consists of component(s) of unknown toxicity.

- Other hazards**- Results of PBT and vPvB assessment****- PBT:** Not applicable**- vPvB:** Not applicable**- Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

- Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

* 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 – 60%
	Skin irritation 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	7 – 13%
	Eye irritation 2A, H319; Sensitization - skin 1, H317	
	Acrylic polymer	3 – 7%
	Combustible Dust	
	Acrylic polymer	1 – 5%
	Combustible Dust	
CAS: 80-15-9	dimethylbenzyl hydroperoxide	1 – 5%
	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: 26936-30-1	Methacryloxypropyltrimethoxysilane	0.5 – 1.5%
	Sensitization - skin 1B, H317	
CAS: 114-83-0	2'-phenylacetohydrazide	0.1 – 1%
	Acute toxicity - oral 4, H302; Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1, H317; Specific target organ toxicity (single exposure) 3, H335	
CAS: 98-82-8	Cumene	0.1 – 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	

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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.

- 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.

- 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:

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

- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

- 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.

- Specific end use(s) No further relevant information available.

* 8 Exposure controls/personal protection

- Control parameters

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

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

CAS: 80-15-9 dimethylbenzyl hydroperoxide

WEEL	Long-term value: 6 mg/m ³ , 1 ppm
	Skin

CAS: 98-82-8 Cumene

PEL	Long-term value: 245 mg/m ³ , 50 ppm
	Skin

REL	Long-term value: 245 mg/m ³ , 50 ppm
	Skin

TLV	Long-term value: 25 mg/m ³ , 5 ppm
	A3

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

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- Exposure controls

- **Appropriate engineering controls** No further data; see section 7.

- 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:



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.

- **Body protection:** Protective work clothing

* 9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Physical state

Solid

- Color:

Green

- Odor:

Weak, characteristic

- Odor threshold:

Not determined

- Melting point/Melting range:

Undetermined

- Boiling point/Boiling range:

≥ 200 °C (≥ 392 °F)

- Flammability:

Not determined

- Explosion limits:

- Lower:

Not determined

- Upper:

Not determined

- Flash point:

95 °C (203 °F)

- Decomposition temperature:

Not determined

- pH-value:

Not applicable

- Viscosity:

- Kinematic:

Not applicable

- Dynamic:

Not applicable

- Solubility in / Miscibility with

- Water:

Insoluble.

- Partition coefficient (n-octanol/water):

Not determined

- Vapor pressure at 20 °C (68 °F):

≤ 0.1 hPa

- Vapor pressure:

- Density at 20 °C (68 °F):

~ 1.0107 g/cm³ (~ 8.43429 lbs/gal)

- Relative density

Not determined

- Vapor density

Not applicable

- Particle characteristics

Not determined

- Other information

- Appearance:

- Form:

Pasty

- Important information on protection of health and environment, and on safety.

- Ignition temperature:

Product is not selfigniting.

- Danger of explosion:

Product does not present an explosion hazard.

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- Solvent content:	
- Organic solvents:	0.7 %
- Water:	1.2 %
- VOC content:	0.69 %
- Solids content:	68.1 %
- Change in condition	
- Evaporation rate	Not applicable.

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:** No dangerous decomposition products known.

*11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	24,450 mg/kg (rat)
Dermal	LD50	32,002 mg/kg (rat)
Inhalative	LC50/4 h	14,081 mg/l (rat)

CAS: 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)

CAS: 26936-30-1 Methacryloxypropyltrimethoxysilane

Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)

CAS: 114-83-0 2'-phenylacetohydrazide

Oral	LD50	270 mg/kg (mouse)
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CAS: 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

- **Interactive effects** No interactive effects between components are known.

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

CAS: 81-07-2	Saccharin	3
CAS: 98-82-8	Cumene	2B
CAS: 91-20-3	naphthalene	2B
CAS: 108-88-3	toluene	3
CAS: 1330-20-7	Mixed Xylenes	3
CAS: 100-41-4	ethylbenzene	2B

- NTP (National Toxicology Program)

CAS: 98-82-8	Cumene	R
CAS: 130-15-4	1,4-naphthoquinone	R

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CAS: 91-20-3	naphthalene	R
- OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		
- Alternative sources for toxicological information No non-standard sources for toxicological information where used.		

12 Ecological information

- **Toxicity**
 - **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.
- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable
 - **vPvB:** Not applicable
- **Other adverse effects**
 - **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.

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
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
- Special precautions for user	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**

- Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
- Section 313 (Specific toxic chemical listings):	
CAS: 81-07-2	Saccharin
CAS: 80-15-9	dimethylbenzyl hydroperoxide
CAS: 98-82-8	Cumene
CAS: 98-86-2	acetophenone
CAS: 91-20-3	naphthalene

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CAS: 80-05-7	bisphenol A
CAS: 108-88-3	toluene
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
Ethoxylated Bisphenol A Dimethacrylate Esters	ACTIVE
coumarone-indene resins	ACTIVE
Saccharin	ACTIVE
dimethylbenzyl hydroperoxide	ACTIVE
Methacryloxypropyltrimethoxysilane	ACTIVE
Deionized water	ACTIVE
propane-1,2-diol	ACTIVE
2'-phenylacetohydrazide	ACTIVE
Cumene	ACTIVE
Naphtha (petroleum), arom.-contg.	ACTIVE
acetophenone	ACTIVE
2-Phenyl-2-propanol	ACTIVE
Distillates (petroleum), hydrotreated light naphthenic	ACTIVE
Colorant	ACTIVE
Solvent Yellow 126	ACTIVE
N-isopropylhydroxylamine	ACTIVE
tetrasodium ethylenediaminetetraacetate	ACTIVE
Solvent naphtha (petroleum), heavy arom.	ACTIVE
1-hydroxyethane-1,1-diylbis(phosphonic acid)	ACTIVE
1,4-naphthoquinone	ACTIVE
naphthalene	ACTIVE
2-Propanone, oxime	ACTIVE
phosphorous acid	ACTIVE
bisphenol A	ACTIVE
toluene	ACTIVE

- Hazardous Air Pollutants

CAS: 98-82-8	Cumene
CAS: 98-86-2	acetophenone
CAS: 130-15-4	1,4-naphthoquinone
CAS: 91-20-3	naphthalene
CAS: 108-88-3	toluene
CAS: 1330-20-7	Mixed Xylenes
CAS: 100-41-4	ethylbenzene

- Proposition 65**- Chemicals known to cause cancer:**

CAS: 98-82-8	Cumene
CAS: 91-20-3	naphthalene
CAS: 100-41-4	ethylbenzene

- Chemicals known to cause reproductive toxicity for females:

CAS: 80-05-7	bisphenol A
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- Chemicals known to cause reproductive toxicity for males:

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

CAS: 80-05-7	bisphenol A
CAS: 108-88-3	toluene

- Carcinogenic categories**- EPA (Environmental Protection Agency)**

CAS: 98-82-8	Cumene	D, CBD
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CAS: 98-86-2	acetophenone	D
CAS: 91-20-3	naphthalene	C, CBD
CAS: 108-88-3	toluene	II
CAS: 1330-20-7	Mixed Xylenes	I
CAS: 100-41-4	ethylbenzene	D

- TLV (Threshold Limit Value)

CAS: 91-20-3	naphthalene	A4
CAS: 108-88-3	toluene	A4
CAS: 1330-20-7	Mixed Xylenes	A4
CAS: 100-41-4	ethylbenzene	A3

- NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- Chemical safety 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.

- Classification System:**- HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = *2
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- NFPA ratings (scale 0 - 4)

2	1	0	Health = 2
			Fire = 1
			Reactivity = 0

- Date of previous version 09/24/2025**- Version number of previous version:** 2**- Date of preparation** 01/16/2026**- Abbreviations and acronyms:**

IMDG: International Maritime 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)
 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
 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 irritation 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
 Sensitization - skin 1B: Skin sensitisation – Category 1B
 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.**- Disclaimer**

The information set forth is based on information that we believe to be accurate. No warranty, expressed or implied, is intended. The information is provided solely for your information and consideration and we assume no legal responsibility for use or reliance thereon. In the event of a discrepancy between the information on the non-English document and its English counterpart, the English version shall supersede.

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