

# SAFETY DATA SHEET

## Section 1 / Chemical Product and Company Information

Product Name : Tacker

Product Use : Adhesion aid for films

Uses Advised Against : Do not use for purposes other than those specified.

Company Information : Clif Designs  
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## Section 2 / Hazards Identification

Classification According to Regulation (EC) No 1272/2008 (CLP) :

Skin Irrit. 2 – H315: Causes skin irritation
Eye Irrit. 2 – H319: Causes serious eye irritation
STOT SE 3 – H335: May cause respiratory irritation

Label Elements :

Hazard Statements
H315 – Causes skin irritation
H319 – Causes serious eye irritation
H335 – May cause respiratory irritation
Precautionary Statements
P264, P280, P305+P351+P338, P337+P313, P403+P233, P501

Other Hazards : Not classified as PBT or vPvB. No known endocrine disruptors.

## Section 3 / Composition & Information on Ingredients

Mixtures :

Chemical Name	CAS Number / EINECS Number / REACH Reg. Number	Content
Water	7732-18-5	85%
2-Butoxyethanol(Butyl cellosolve)	111-76-2	14%
(3-Glycidoxypropyl)trimethoxysilane(GPTMS)	2530-83-8	1%

## Section 4 / First Aid Measures

Description of First Aid Measures:

Inhalation :	Remove to fresh air, keep patient warm and at rest.
Skin Contact :	Wash skin with soap and water. If irritation develops and persists, get medical attention.
Eye Contact :	Immediately flush eyes with water while lifting the upper and lower lids. Get medical attention if irritation persists.
Ingestion :	Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a person who is unconscious or convulsing. Get medical attention if symptoms develop.

### Most Important Symptoms and Effects, both Acute and Delayed :

May cause mild eye and skin irritation. Ingestion may cause gastrointestinal distress. Inhalation of mists may cause upper respiratory tract irritation.

Indication of any immediate medical attention and special treatment needed :  
Immediate medical attention is not generally required.

## Section 5 / Fire Fighting Measures

Suitable Extinguishing Media :

CO<sub>2</sub> , dry chemical, alcohol-resistant foam.

Specific Hazards :

Vapors may form explosive mixtures with air. Combustion produces CO, CO<sub>2</sub> , and irritant fumes.

Protective Equipment :

Wear self-contained breathing apparatus and protective gear.

## Section 6 / Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures :

Wear appropriate protective clothing and equipment as described in Section 8.

Environmental Precautions :

Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.

Methods and Material for Containment and Cleaning Up :

Stop the spill at the source if with out risk. Contain and collect with an inert absorbent material. Place in an appropriate container for disposal.

Reference to Other Sections

Refer to section 8 for personal protective equipment and Section 13 for disposal information.

## Section 7 / Handling & Storage

Precautions for Safe Handling

Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling.

Conditions for Safe Storage, Including any Incompatibilities :

Keep product in its original container. Keep container closed when not in use away from strong oxidizers. Avoid extreme heat and freezing.

Specific end use(s) :

Industrial Uses : Automobile coating

Professional Uses : Automobile coating

## Section 8 / Exposure Controls & Personal Protection

Control Parameters :

Refer to local regulations for exposure limits listed section 3.

Occupational Exposure Limits (2-Butoxyethanol) :

TWA 20 ppm (98 mg/m<sup>3</sup>) EU IOELV

Engineering Controls :

Ensure good general ventilation.

Personal Protective Equipment :

Hand Protection : Nitrile gloves (thickness  $\geq 0.3$  mm)

Eye Protection : Safety goggles or face shield

Respiratory Protection : Mask with organic vapor filter if mist forms

Skin Protection : Long-sleeved clothing

## Section 9 / Physical & Chemical Properties

Property	Value
Appearance	Clear liquid
Color	Colorless to pale yellow
Odor	Mild ether-like odor
pH (25°C)	7.0 $\pm$ 0.5
Boiling Point	$\approx$ 100°C
Flash Point	$\approx$ 63°C (closed cup)
Solubility	Completely miscible in water
Density (20°C)	$\sim$ 0.96 g/cm <sup>3</sup>
VOC Content	Approx. 140 g/L

## Section 10 / Stability & Reactivity

Stable under normal conditions. Avoid excessive heat and strong oxidizers.  
Decomposition may release CO, CO<sub>2</sub>, and organic vapors.

## Section 11 / Toxicological Information

Acute Toxicity (Mixture) :  
Not classified.

2-Butoxyethanol :  
LD<sub>50</sub> (oral, rat) = 1200 mg/kg; LD<sub>50</sub> (dermal, rabbit) = 2200 mg/kg.

### Potential Health Effects :

Inhalation : Inhalation may cause mild irritation to the upper respiratory tract.  
Ingestion : May cause mucous membrane and gastrointestinal irritation and other adverse effects.  
Skin Contact : Prolonged skin contact may cause mild skin irritation.  
Eye Contact : Contact may cause mild irritation with redness and tearing.

### Chronic Effects :

Prolonged overexposure to dust or mist of colloidal silica (synthetic amorphous silica) may cause lung damage (pneumoconiosis).  
Sensitization: Components are not known to be sensitizers.  
Skin Corrosion/Irritation: Contains component that is a skin irritants.  
Eye Damage/ Irritation: Contains component that is an eye irritants.  
Respiratory Irritation: No data available.  
Respiratory Sensitization: Components are not respiratory sensitizers.  
Skin Sensitization: None of the components have been shown to cause skin sensitization.  
Germ Cell Mutagenicity : Components are not germ cell mutagens.  
Carcinogenicity : None of the components of this product are listed as carcinogens by IARC, NTP, US OSHA or the EU CLP or classified as carcinogens under the GHS.  
Reproductive Toxicity : No adverse effects are expected. Components are not reproductive toxins.  
Aspiration Hazard: None of the components are aspiration hazards.  
Specific Target Organ Toxicity :  
    Single Exposure : No adverse effects are expected.  
    Repeat Exposure : No data available.  
Acute Toxicity Values : Relevant components are not acutely toxic.

## Section 12 / Ecological Information

Ecotoxicity :  
Harmful to aquatic organisms in high concentrations.  
Biodegradability :  
Readily biodegradable (>80% in 28 days).  
Bioaccumulation :  
Low potential.  
Avoid uncontrolled release into the environment.

## Section 13 / Disposal Considerations

Disposal Operations : Consult state, local or national regulations for proper disposal. Hand over to authorised disposal company as hazardous waste.

Disposal of Packaging : Disposal must be made according to official regulations.

## Section 14 / Transportation Information

Control Parameters :  
Refer to local regulations for exposure limits listed below.

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazard
US DOT		Not classified as hazardous for transport			
Canadian TDG		Not classified as hazardous for transport			
EU ADR/RID		Not classified as hazardous for transport			
IMDG		Not classified as hazardous for transport			
IATA/ICAO		Not classified as hazardous for transport			

Special Precautions for User : None known.

## Section 15 / Regulatory Information

Complies with REACH (EC 1907/2006) and CLP (EC 1272/2008).

No SVHC substances present (>0.1%).

Water Hazard Class (WGK) : 1 (low hazard to water).

Product is not subject to Seveso III Directive.

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture :

EPA Toxic substances control act (TSCA) : All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.

SARA 302 listed Chemicals : None.

SARA 311/312 Hazard Categories : Not hazardous

SARA 313 This Product contains the following chemicals subject to annual release reporting requirements

Under the SARA Section 313 (40 CFR 372) : None

California Proposition 65 : This product does not contain chemicals listed per the safe drinking water and toxic Enforcement Act of 1986.

International Regulations :

Canadian Environmental Protection act : One or more of the components of this product are not listed on the canadian domestic substances list.

European Union : All of the components are listed REACH registered or Pre-registered substances and Inter mediates.

Australia : All of the ingredients of this product are not listed on the australian Inventory of chemical substances (AICS).

China : All of the ingredients of this product are listed on the Inventory of existing chemical substance in china (IECSC).

Korea : One or more of the components of this product are not listed on the Korean existing chemical list (KECL).

Japan : One or more of the components of this product are not listed on the Japanese existing and new chemical substances list (ENCS).



New Zealand : All of the components of this product are listed on the new zealand Inventory of chemicals (NZIoC).  
Philippines : All of the components of this product are listed on the philippine Inventory of chemicals and chemical substances (PICCS).  
Taiwan : All the components are listed on the existing chemicals inventory.

## Section 16 / Other Information

HMIS Ratings : Health - 0

Flammability - 1

Physical Hazard - 0

NFPA Ratings : Health - 0

Flammability - 1

Instability - 0

CLP/GHS Classification and H Phrases for Reference (See Section 3)

Aquatic Chronic Tox. 2 - Aquatic chronic toxicity category 2

Eye Irritation 2 – Eye Irritation category 2

Skin Irritation 2 – Skin Irritation category 2

STOT RE 3 – Specific target organ toxicity repeat exposure category 3

H302 Harmful if swallowed

H312 Harmful in contact with skin

H332 Harmful if inhaled

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

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