

1 Identification

- Product identifier
 - Trade name: Tacusil 210008 A
 - Recommended use Polyols
 - Restrictions on use For industrial use only
- Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:
 - Kitpackers China
 - Number 339, Petrochemical Avenue, Petrochemical Zone, Daya Bay, Huizhou City, Guangdong, China, 516211 (86 752) 5533798
 - Information Department: Product Safety Department: info@tacusil.com.hk
 - Emergency Telephone Number:
 - North America - Chemtrec: 1-800-424-9300 (24 hours)
 - International - Chemtrec: 01-703-527-3887 (24 hours)

2 Hazard(s) identification

- Classification of the substance or mixture The product is not classified, according to the Globally Harmonized System (GHS).

- Label elements
 - GHS label elements Not classified
 - Hazard pictograms Not classified
 - Signal word Not classified
 - Hazard statements Not classified

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



NFPA special hazards (water reactivity and oxidizing property): None

- HMIS System
 - HMIS-ratings (scale 0 - 4)

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

- Other hazards
 - Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

- Dangerous components:

CAS: 8001-79-4	Castor oil	40-50%
EINECS: 232-293-8		
RTECS: FI 4100000		

- Additional information:

If the chemical name/CAS number is proprietary and or weight percentage is listed as a range, the specific chemical identity and or percentage of composition has been withheld as a trade secret.

4 First-aid measures

- Description of first aid measures
 - General information: Keep warm, position comfortably and cover well.
 - After inhalation: Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing.
 - After skin contact:
 - Immediately wash with water and soap and rinse thoroughly.
 - If skin rash or irritation occurs, seek medical advice.
 - Remove all contaminated clothing and wash before reuse.
 - After eye contact:
 - Immediately flush opened eyes with water for 5 minutes, then remove contact lenses if present, continue flushing for at least another 15 minutes.
 - If symptoms develop seek medical attention.
 - After swallowing:
 - If victim is unconscious; never give anything by mouth.
 - Do NOT induce vomiting.
 - If victim is conscious, rinse out mouth with water.
 - Get medical attention
 - Information for doctor:
 - Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 2)

Printing date 03/26/2019

Reviewed on 03/26/2019

Trade name: Tacusil 210008 A

· **Indication of any immediate medical attention and special treatment needed**
Check section 11 Toxicological Information for further relevant information.

(Contd. of page 1)

5 Fire-fighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
Carbon dioxide
dry chemical
Alcohol resistant foam
- **Special hazards arising from the substance or mixture**
Will not burn unless preheated.
In case of fire, the following can be released:
Carbon dioxide (CO₂) and Carbon monoxide (CO)
- **Advice for firefighters**
 - **Protective equipment:**
If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).
As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.
- **Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
For large spills: provide diking or containment to minimize spreading. If possible pump and store material in appropriate container.
For small spills: Ventilate and wash area. Collect spills and absorbant material in appropriate container.
Non sparking tools should be used.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

- **Handling:**
 - **Precautions for safe handling**
Take measures to prevent the buildup of electrostatic discharge.
Keep away from incompatible material(s).
Avoid any release into the environment.
Do not breathe dust/fumes/mist/vapor/spray.
Avoid contact with eyes, skin and clothing.
Keep away from heat, sparks, flames and ignition sources.
Observe all the personal protection requirements in Section 8.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
Provide ventilation for receptacles.
Keep stored in accordance with local, regional, national, and international regulations.

8 Exposure controls/personal protection

· Control parameters

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

8001-79-4 Castor oil

TEEL-1	Short-term value: 125 mg/m ³
TEEL-2	Short-term value: 500 mg/m ³
TEEL-3	Short-term value: 500 mg/m ³

· **Additional Occupational Exposure Limit Values for possible hazards during processing:** None.

· Exposure controls

If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

· Personal protective equipment:

· General protective and hygienic measures:

Be sure to clean skin thoroughly after work and before breaks.
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.

· Personal Protective Equipment (PPE)

· Breathing equipment:

Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.
Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

(Contd. on page 3)

Printing date 03/26/2019

Reviewed on 03/26/2019

Trade name: Tacusil 210008 A

(Contd. of page 2)

· **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**



Chemical resistant gloves

· **Eye protection:**



Safety Glasses with side shields

· **Body protection:** Appropriate chemical resistant clothing.

· **Limitation and supervision of exposure into the environment**

The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:**

Liquid

· **Color:**

White

· **Odor:**

Odorless

· **Odor threshold:**

Not determined.

· **pH-value:**

Not determined.

Not determined.

· **Change in condition**

· **Melting point/Melting range:**

Undetermined.

· **Boiling point/Boiling range:**

Undetermined.

· **Flash point:**

>200 °C (>392 °F)

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

Not determined.

· **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:**

Not determined.

· **Vapor Density:**

not determined

· **Density at 20 °C (68 °F):**

1.35 g/cm³ (11.27 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/water):** Not determined.

· **Viscosity:**

· **Dynamic:**

Not available.

Not determined.

· **Kinematic:**

Not available.

· **VOC content:**

0.00 %

0.0 g/l / 0.00 lb/gal

10 Stability and reactivity

· **Reactivity** Not a regulated physical hazard under GHS.

· **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.

· **Thermal decomposition / conditions to be avoided:**

To avoid thermal decomposition do not overheat.

No decomposition if used and stored according to specifications.

· **Possibility of hazardous reactions**

In contact with incompatible materials.

No dangerous reactions known.

· **Conditions to avoid** Keep away from heat, sparks, flame and any other ignition sources.

· **Incompatible materials:** Oxidizing agents

(Contd. on page 4)

Printing date 03/26/2019

Reviewed on 03/26/2019

Trade name: Tacusil 210008 A

· **Hazardous decomposition products:**
Possible in traces.
Refer to section 5.

(Contd. of page 3)

11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

8001-79-4 Castor oil

Oral	LD50	mg/kg (Human) (Probable oral lethal dose=5000-15000 mg/kg) Reference: NLM HSDB (2011).
Dermal	LD50	mg/kg (Test species: n/a) (Toxicity not expected based on acute oral data)
Inhalative	LC50/4 h	mg/l (Test species: n/a) (Toxicity not expected based on acute oral data)

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **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)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential**

No data available.

No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:** The product is non-rapid degradable, and low or not highly bioaccumulative.

· **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:** None of the ingredients is listed.

· **vPvB:** None of the ingredients is listed.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must be specially treated adhering to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Dispose of according to your local waste 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:**

Not applicable.

· **Special precautions for user**

Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

(Contd. on page 5)

Printing date 03/26/2019

Reviewed on 03/26/2019

Trade name: Tacusil 210008 A

(Contd. of page 4)

· **UN "Model Regulation":** not regulated

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **SARA Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **SARA Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **Section 311/312 (Hazardous Chemical Inventory reporting)**

· **SARA Section 311/312 (Hazardous Chemical Inventory Reporting)**

None of the ingredients is listed.

· **Hazard Abbreviations for SARA 311/312**

A - Acute Health Hazard

C - Chronic Health Hazard

F - Fire Hazard

R - Reactive Hazard

S - Sudden Release of Pressure Hazard

· **TSCA 8 (b) Inventory:**

8001-79-4 | Castor oil

ACTIVE

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **International Regulation Lists**

· **GHS label elements** GHS label elements

· **REACH - Substances of Very High Concern (SVHC) List:**

None of the ingredients is listed.

· **Restriction of Hazardous Substances Directive (RoHS) list:**

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.

· **Department Issuing (M)SDS:** Product Development Department

· **Contact:** info@tacusil.com.hk

· **Date of preparation / last revision** 03/26/2019 / 1

· *** Data compared to the previous version altered.**

US