

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

- Trade name RHEOMER 33T

**1.2 Relevant identified uses of the substance or mixture and uses advised against****Uses of the Substance / Mixture**

- Thickener for cosmetic formulations

**1.3 Details of the supplier of the safety data sheet****Company**

Solvay USA Inc.,  
NOVECARE  
504 Carnegie Center  
Princeton, NJ, 08540, US  
Telephone Number: 800-973-7873

**1.4 Emergency telephone**

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

**SECTION 2: Hazards identification**

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

**2.1 Classification of the substance or mixture****HCS 2012 (29 CFR 1910.1200)**

- Not a hazardous product according to Globally harmonized System (GHS)

**2.2 Label elements****HCS 2012 (29 CFR 1910.1200)**

- Not a hazardous product according to Globally harmonized System (GHS)

**2.3 Other hazards which do not result in classification**

- Slightly irritating to eyes and skin.

**SECTION 3: Composition/information on ingredients****3.1 Substance**

- Not applicable, this product is a mixture.

**3.2 Mixture**

- Chemical nature Aqueous polymer solution

**Hazardous Ingredients and Impurities**

- No ingredients are hazardous.

**Non Hazardous Ingredients and Impurities**

Chemical name	Identification number CAS-No.	Concentration [%]
Polyacrylate 33	*****	25- 35

**SECTION 4: First aid measures****4.1 Description of first-aid measures****General advice**

- Show this material safety data sheet to the doctor in attendance.
- First responder needs to protect himself.
- Place affected apparel in a sealed bag for subsequent decontamination.

**In case of inhalation**

- Negligible or unlikely exposure pathways
- Move to fresh air in case of accidental inhalation of vapors.
- Consult a physician if necessary.

**In case of skin contact**

- In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Get medical attention if irritation develops and persists.
- Wash contaminated clothing before reuse.

**In case of eye contact**

- Rinse immediately with plenty of water for at least 15 minutes.
- If eye irritation persists, consult a physician.

**In case of ingestion**

- Do not induce vomiting without medical advice.
- If victim is conscious:
- Rinse mouth with water.
- Keep at rest.
- Do not give anything to drink.
- Do not leave the victim unattended.
- Vomiting may occur spontaneously
- Risk of product entering the lungs on vomiting after ingestion.
- Lay victim on side.
- Seek medical advice.

**4.2 Most important symptoms and effects, both acute and delayed****Effects**

- Skin contact may aggravate existing skin disease
- Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis

**4.3 Indication of any immediate medical attention and special treatment needed**

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**Notes to physician**

- Treat symptomatically.
- There is no specific antidote available.
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

**SECTION 5: Firefighting measures**

**Flash point** > 200 °F (> 93 °C)  
closed cup  
Flammability class: Will burn

**Autoignition temperature** no data available

**Flammability / Explosive limit** no data available

**5.1 Extinguishing media****Suitable extinguishing media**

- Water spray
- Foam
- Multipurpose powders
- Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

- High volume water jet
- High volume water jet (frothing possible)

**5.2 Special hazards arising from the substance or mixture****Specific hazards during fire fighting**

- Under fire conditions:
- Will burn
- (following evaporation of water)
- Hazardous decomposition products formed under fire conditions.

**Hazardous combustion products:**

- On combustion or on thermal decomposition (pyrolysis), releases:
- Carbon oxides

**5.3 Advice for firefighters****Special protective equipment for fire-fighters**

- Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

**Specific fire fighting methods**

- Do not use a solid water stream as it may scatter and spread fire.

**Further information**

- Standard procedure for chemical fires.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- For further information refer to section 8 "Exposure controls / personal protection."
- Wear suitable protective equipment.

### 6.2 Environmental precautions

- Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.
- Contain the spilled material by diking.
- Do not flush into surface water or sanitary sewer system.
- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies

### 6.3 Methods and materials for containment and cleaning up

#### **Recovery**

- Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
- Keep in properly labeled containers.
- Keep in suitable, closed containers for disposal.

#### **Recovery**

- Soak up with inert absorbent material.
- Shovel or sweep up.
- Keep in suitable, closed containers for disposal.
- Never return spills in original containers for re-use.

#### **Decontamination / cleaning**

- Decontaminate tools, equipment and personal protective equipment in a segregated area.

#### **Decontamination / cleaning**

- Wash nonrecoverable remainder with large amounts of water.
- Clean contaminated surface thoroughly.
- Recover the cleaning water for subsequent disposal.

#### **Disposal**

- Dispose of in accordance with local regulations.

#### **Methods for containment**

- Stop leak if safe to do so.
- Dam up with sand or inert earth (do not use combustible materials).

#### **Additional advice**

- Material can create slippery conditions.
- Dry polymerized residues may be cleaned up with a high pressure water jet.

### 6.4 Reference to other sections

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

- Ethylene oxide may collect in container head space.
- Provide adequate ventilation.
- Handle in accordance with good industrial hygiene and safety practice.
- Avoid inhalation of vapor or mist.
- Avoid contact with skin and eyes.
- Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.
- Avoid localized overheating.
- Vent drums while heating
- Homogenize before using.

**Hygiene measures**

- The user is responsible for monitoring the working environment in accordance with local laws and regulations.
- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
  - 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
  - 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
  - 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Stable under normal conditions.
- Keep container closed when not in use.
- Keep in a well-ventilated place.
- Keep in a dry, cool place.
- Store in original container.
- Keep away from open flames, hot surfaces and sources of ignition.
- Protect from frost.
- Keep away from incompatible materials to be indicated by the manufacturer
- Keep away from: Hazardous reactions may occur on contact with certain chemicals. (Refer to the list of incompatible materials section 10: "Stability-Reactivity").

**Packaging material****Suitable material**

- Plastic materials.

**Requirements for storage rooms and vessels**

**Recommended storage temperature:** 41 - 95 °F (5 - 35 °C)

- After drying leaves a film adhering to the surfaces. Immediately rinse contaminated containers, equipment, and tools with water.

**7.3 Specific end use(s)**

- no data available

## SECTION 8: Exposure controls/personal protection

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

### 8.1 Control parameters

- Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Control measures

##### **Engineering measures**

- Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures :
- Effective exhaust ventilation system

#### Individual protection measures

##### **Respiratory protection**

- When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

##### **Hand protection**

- Recommended preventive skin protection
- Gloves
- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

##### **Eye protection**

- Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.
- Eye contact should be prevented through the use of:
- Safety glasses with side-shields

##### **Skin and body protection**

- Recommended preventive skin protection
- Footwear protecting against chemicals
- Impervious clothing

##### **Hygiene measures**

- The user is responsible for monitoring the working environment in accordance with local laws and regulations.
- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

**Protective measures**

- Ensure that eyewash stations and safety showers are close to the workstation location.
- Emergency equipment immediately accessible, with instructions for use.
- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.
- The protective equipment must be selected in accordance with current local standards and in cooperation with the supplier of the protective equipment.

**SECTION 9: Physical and chemical properties**

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

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

<b><u>Appearance</u></b>	<b><u>Form:</u></b> Aqueous solution <b><u>Physical state:</u></b> liquid <b><u>Color:</u></b> milky
<b><u>Odor</u></b>	like acrylic
<b><u>Odor Threshold</u></b>	no data available
<b><u>pH</u></b>	2.2 - 3.8
<b><u>Melting point/freezing point</u></b>	<b><u>Freezing point:</u></b> < 41 °F (< 5 °C)
<b><u>Initial boiling point and boiling range</u></b>	ca. <b><u>Boiling point/boiling range:</u></b> 212 °F (100 °C) ( 760 mmHg (1,013.25 hPa))
<b><u>Flash point</u></b>	> 200 °F (> 93 °C) closed cup Flammability class: Will burn
<b><u>Evaporation rate (Butylacetate = 1)</u></b>	no data available
<b><u>Flammability (solid, gas)</u></b>	no data available
<b><u>Flammability (liquids)</u></b>	no data available
<b><u>Flammability / Explosive limit</u></b>	no data available
<b><u>Autoignition temperature</u></b>	no data available
<b><u>Vapor pressure</u></b>	no data available
<b><u>Vapor density</u></b>	no data available
<b><u>Density</u></b>	>= 1 g/cm <sup>3</sup> ( 68 °F (20 °C))
<b><u>Relative density</u></b>	no data available

<b><u>Solubility</u></b>	<u>Water solubility:</u> dispersible
	<u>Solubility in other solvents:</u> not determined
<b><u>Partition coefficient: n-octanol/water</u></b>	no data available
<b><u>Decomposition temperature</u></b>	no data available
<b><u>Viscosity</u></b>	<u>Viscosity, dynamic</u> : < 50 mPa.s ( 73 °F (23 °C))
<b><u>Explosive properties</u></b>	no data available
<b><u>Oxidizing properties</u></b>	no data available

## 9.2 Other information

<b><u>Volatiles by Volume</u></b>	> 69 %
<b><u>Non Volatiles by Weight</u></b>	< 31 %

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

- no data available

### 10.2 Chemical stability

- Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

#### **Polymerization**

- Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

- Keep away from heat and sources of ignition.
- Protect from frost.

### 10.5 Incompatible materials

- Strong bases
- Strong acids
- Strong oxidizing agents
- Strong reducing agents.

### 10.6 Hazardous decomposition products

- On combustion or on thermal decomposition (following the evaporation of water) releases:
- (Carbon oxides (CO + CO<sub>2</sub>)).



**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity**

This product is not considered to pose any particular risk on ingestion.  
By analogy

**Acute inhalation toxicity**

Not classified as hazardous for acute inhalation toxicity according to GHS.  
According to the data on the components  
According to the classification criteria for mixtures.

**Acute dermal toxicity**

Not classified as hazardous for acute dermal toxicity according to GHS.  
According to the data on the components  
According to the classification criteria for mixtures.

**Acute toxicity (other routes of administration)**

no data available

**Skin corrosion/irritation**

Polyacrylate 33

Not corrosive to skin.  
Method: OECD Test Guideline 431  
Unpublished internal reports  
EPISKIN Human Skin Model Test

reconstructed human epidermis (RhE)  
Not classified as irritating to skin  
Method: OECD Test Guideline 439  
Unpublished internal reports  
EPISKIN Human Skin Model Test

**Serious eye damage/eye irritation**

Polyacrylate 33

Not classified as irritating to eyes  
HCE Test: Human Corneal Epithelium Test  
Unpublished internal reports

**Respiratory or skin sensitization**

Not classified as sensitizing by skin contact  
By analogy

Product not considered to be a photosensitizer  
By analogy

**Mutagenicity****Genotoxicity in vitro**

Polyacrylate 33

Ames test  
with and without metabolic activation

negative  
Method: OECD Test Guideline 471  
Unpublished internal reports

**Genotoxicity in vivo**

According to the data on the components  
Product is not considered to be genotoxic  
According to the classification criteria for mixtures.

**Carcinogenicity** no data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP  
IARC  
OSHA  
ACGIH

**Toxicity for reproduction and development**

**Toxicity to reproduction / fertility** no data available

**Developmental Toxicity/Teratogenicity** no data available

**STOT**

**STOT-single exposure** no data available

**STOT-repeated exposure** no data available

**Aspiration toxicity** no data available

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic Compartment**

**Acute toxicity to fish** no data available

**Acute toxicity to daphnia and other aquatic invertebrates.**

Polyacrylate 33 EC50 - 48 h : > 100 mg/l - Daphnia magna (Water flea)  
Method: OECD Test Guideline 202  
Fresh water  
Unpublished internal reports  
Not harmful to aquatic invertebrates. (EC/EL50 > 100 mg/L)

**Toxicity to aquatic plants** no data available

**Toxicity to microorganisms** no data available

**Chronic toxicity to fish** no data available

**Chronic toxicity to daphnia and other aquatic invertebrates.** no data available

**Chronic Toxicity to aquatic plants** no data available

## 12.2 Persistence and degradability

**Abiotic degradation** no data available

**Physical- and photo-chemical elimination** no data available

### Biodegradation

#### **Biodegradability**

Polyacrylate 33

Ready biodegradability study:  
Method: OECD Test Guideline 310  
3.7 % - 28 Days  
The substance does not fulfill the criteria for ready biodegradability and ultimate aerobic biodegradability  
Theoretical carbon dioxide production  
Unpublished internal reports

#### **Degradability assessment**

Polyacrylate 33

The product is not considered to be rapidly degradable in the environment

## 12.3 Bioaccumulative potential

**Partition coefficient: n-octanol/water** no data available

#### **Bioconcentration factor (BCF)**

Polyacrylate 33

Not potentially bioaccumulable  
Expert judgment

## 12.4 Mobility in soil

**Adsorption potential (Koc)** no data available

#### **Known distribution to environmental compartments**

Ultimate destination of the product: Water

## 12.5 Results of PBT and vPvB assessment

Polyacrylate 33

This substance is not considered to be persistent, bioaccumulating, and toxic (PBT).  
This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects no data available

#### Ecotoxicity assessment

##### Acute aquatic toxicity

According to the data on the components  
The product does not have any known adverse effects on the aquatic organisms tested  
According to the classification criteria for mixtures.

##### Chronic aquatic toxicity

According to the data on the components  
Does not have any known long term adverse effects on the aquatic organisms tested  
According to the classification criteria for mixtures.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product Disposal

- Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

##### Waste Code

- Environmental Protection Agency
- Hazardous Waste – NO

##### Advice on cleaning and disposal of packaging

- Rinse with an appropriate solvent.
- Dispose of contents/container in accordance with local regulation.

### SECTION 14: Transport information

#### DOT

not regulated

#### TDG

not regulated

#### NOM

not regulated

#### IMDG

not regulated

#### IATA

not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of

transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

## SECTION 15: Regulatory information

### 15.1 Notification status

Inventory Information	Status
United States TSCA Inventory	- E = All ingredients are on the inventory or exempt from listing.
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australia Inventory of Chemical Substances (AICS)	- One or more components not listed on inventory
Australia Inventory of Chemical Substances (AICS)	- Not in compliance with the inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- One or more components not listed on inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- One or more components not listed on inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- One or more components not listed on inventory
European Inventory of Existing Commercial Chemical Substances (EINECS)	- Product falls under the EU-polymer definition.
New Zealand. Inventory of Chemical Substances	- One or more components not listed on inventory
Taiwan Chemical Substance Inventory	- One or more components not listed on inventory

### 15.2 Federal Regulations

#### US. EPA EPCRA SARA Title III

#### **SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)**

Fire Hazard	no
Reactivity Hazard	no
Sudden Release of Pressure Hazard	no
Acute Health Hazard	no
Chronic Health Hazard	no

#### **Section 313 Toxic Chemicals (40 CFR 372.65)**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## RHEOMER 33T

Revision Date 01/09/2017

**Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)**

Ingredients	CAS-No.	Reportable quantity
Ethylene Oxide	75-21-8	10 lb

**Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)**

Ingredients	CAS-No.	Reportable quantity
Ethylene Oxide	75-21-8	10 lb

**US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)**

Ingredients	CAS-No.	Reportable quantity
Ethylene Oxide	75-21-8	10 lb
1,4-Dioxane	123-91-1	100 lb
Methacrylic Acid	79-41-4	100 lb
Ethyl Acrylate	140-88-5	1000 lb

Calculated RQ exceeds reasonably attainable upper limit.

**15.3 State Regulations****US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)**

WARNING! This product contains a chemical known in the State of California to cause cancer.

Ingredients	CAS-No.
1,4-Dioxane	123-91-1
Ethylene Oxide	75-21-8
Ethyl Acrylate	140-88-5

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Ingredients	CAS-No.
Ethylene Oxide	75-21-8

**SECTION 16: Other information****NFPA (National Fire Protection Association) - Classification**

Health	1 slight
Flammability	1 slight
Instability or Reactivity	0 minimal

**HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification**

Health	1 slight
Flammability	1 slight
Reactivity	0 minimal
PPE	Determined by User; dependent on local conditions

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**Further information**

- Product evaluated under the US GHS format.
- This sheet was updated (refer to the date at the top of this page). Subheadings and text which have been modified since the previous version are indicated with two vertical bars.

**Date Prepared:** 01/09/2017

- ACGIH American Conference of Governmental Industrial Hygienists
- OSHA Occupational Safety and Health Administration
- NTP National Toxicology Program
- IARC International Agency for Research on Cancer
- NIOSH National Institute for Occupational Safety and Health

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.