

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 14.04.2016

Revision: 14.04.2016

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: **Reflex v.1**

Article number: 106484

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture: Floor cleaner

### 1.3 Details of the supplier of the Safety Data Sheet

#### Manufacturer/Supplier:

Theochem Laboratories  
7373 Rowlett Park Drive  
Tampa, FL 33610  
Phone: 813-237-6463



### 1.4 Emergency telephone number:

ChemTel Inc.  
+1 (800)255-3924, +1 (813)248-0585

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H361d.

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H351, H361.

Repr. 2 H361: Suspected of damaging fertility or the unborn child.

Repr. 2 H361d Suspected of damaging the unborn child.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the Globally Harmonized System within the United States.

Note for United States only:

If a Category 2 carcinogen ingredient is present in the mixture at a concentration between 0.1% and 1%, information is required on the SDS for a product. However, a label warning is optional.

The product is classified and labelled according to the CLP regulation.

#### Hazard pictograms



GHS08

Signal word Warning

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## · Hazard-determining components of labelling:

2-(2-methoxyethoxy)ethanol

2,2'-iminodiethanol

## · Hazard statements

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation (1272/2008/EC) in the EU: H361.

H361: Suspected of damaging fertility or the unborn child.

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H361d.

H361d Suspected of damaging the unborn child.

## · Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves / eye protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## · NFPA ratings (scale 0 - 4)



Health = 0

Fire = 0

Reactivity = 0

## · HMIS-ratings (scale 0 - 4)



Health = \*0

Fire = 0

Reactivity = 0

\* - Indicates a long term health hazard from repeated or prolonged exposures.

## · 2.3 Other hazards There are no other hazards not otherwise classified that have been identified.

## · Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

### · 3.2 Mixtures

#### · Components:

CAS: 68131-39-5 NLP: 500-195-7	alcohols, C12-15, ethoxylated ⚠ Aquatic Acute 1, H400 Aquatic Chronic 3, H412	<10%
CAS: 34590-94-8 EINECS: 252-104-2	(2-methoxymethylethoxy)propanol substance with a Community workplace exposure limit	<10%

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CAS: 68603-42-9 EINECS: 271-657-0	coconut diethanolamide ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-5%
CAS: 111-77-3 EINECS: 203-906-6 Index number: 603-107-00-6	2-(2-methoxyethoxy)ethanol ⚠ Repr. 2, H361d	1-5%
CAS: 111-42-2	2,2'-iminodiethanol ⚠ Carc. 2, H351; STOT RE 2, H373 ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	<1%

· **Additional information:**

For the wording of the listed Hazard Statements refer to section 16.

For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.

## SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

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

Slight irritant effect on skin and mucous membranes.

Slight irritant effect on eyes.

Gastric or intestinal disorders when ingested.

Cramp

Coughing

Nausea

· **Hazards:**

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

· **For safety reasons unsuitable extinguishing agents:** None.

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- **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

- **5.3 Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

## SECTION 6: Accidental release measures

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

Particular danger of slipping on leaked/spilled product.

Use personal protective equipment as required.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation

- **6.2 Environmental precautions**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **6.3 Methods and material for containment and cleaning up**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

- **6.4 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.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

- **Information about fire - and explosion protection:** No special measures required.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.

Do not store together with oxidising and acidic materials.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Protect from frost.

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

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## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

##### **34590-94-8 (2-methoxymethylethoxy)propanol**

PEL (USA)	Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
REL (USA)	Short-term value: 900 mg/m <sup>3</sup> , 150 ppm Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
TLV (USA)	Short-term value: 909 mg/m <sup>3</sup> , 150 ppm Long-term value: 606 mg/m <sup>3</sup> , 100 ppm Skin
IOELV (EU)	Long-term value: 308 mg/m <sup>3</sup> , 50 ppm Skin

##### **111-77-3 2-(2-methoxyethoxy)ethanol**

IOELV (EU)	Long-term value: 50,1 mg/m <sup>3</sup> , 10 ppm Skin
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##### **111-42-2 2,2'-iminodiethanol**

REL (USA)	Long-term value: 15 mg/m <sup>3</sup> , 3 ppm
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> , 0,2* ppm Skin; *inhalable fraction and vapor

- **DNELs:** No further relevant information available.
- **PNECs:** No further relevant information available.

### · 8.2 Exposure controls

#### · Personal protective equipment:

#### · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Do not inhale gases / fumes / aerosols.

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.

Avoid close or long term contact with the skin.

#### · Respiratory protection:

Not required under normal conditions of use.

Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

For spills, respiratory protection may be advisable.

#### · Protection of hands:



Protective gloves

Wear protective gloves to handle contents of damaged or leaking units.

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Gloves are advised for repeated or prolonged contact.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Eye protection:**



Safety glasses

· **Body protection:**

Not required under normal conditions of use.

Protection may be required for spills.

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

No further relevant information available.

· **Risk management measures:** See Section 7 for additional information.

## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

· **Appearance**

Form: Liquid

Colour: Pink

· **Odour:** Pleasant

· **Odour threshold:** Not determined.

· **pH-value:** 8,5 - 9,5

· **Melting point/Melting range:** Not determined.

· **Boiling point/Boiling range:** Not determined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

· **Auto/Self-ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits**

Lower: Not determined.

Upper: Not determined.

· **Vapour pressure:** Not determined.

· **Density:** 1,05 - 1,07 g/cm<sup>3</sup> (8,762 - 8,929 lbs/gal)

· **Relative density:** Not determined.

· **Vapour density:** Not determined.

· **Evaporation rate:** Not determined.

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- |   |  |
|---|--|
| · <b>Solubility in / Miscibility with water:</b>  | Fully miscible.                            |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| · <b>Viscosity</b>                                |  |
| <b>Dynamic:</b>                                   | Not determined.                            |
| <b>Kinematic:</b>                                 | Not determined.                            |
| · <b>9.2 Other information</b>                    | No further relevant information available. |

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Toxic fumes may be released if heated above the decomposition point.  
Reacts with strong acids and oxidising agents.
- **10.4 Conditions to avoid** Excessive heat.
- **10.5 Incompatible materials**  
Strong acids  
Oxidizers
- **10.6 Hazardous decomposition products**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity:** Based on available data, the classification criteria are not met.
  - **LD/LC50 values relevant for classification:**
- |  |      |                     |
|--|------|---------------------|
| <b>111-77-3 2-(2-methoxyethoxy)ethanol</b> |      |                     |
| Oral                                       | LD50 | 5500 mg/kg (rat)    |
| Dermal                                     | LD50 | 6540 mg/kg (rabbit) |
- **Primary irritant effect**
  - **Skin corrosion/irritation:** Slight irritant effect on skin and mucous membranes.
  - **Serious eye damage/irritation:** Slight irritant effect on eyes.
  - **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
  - **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer):**

68603-42-9	coconut diethanolamide	2B
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111-42-2 | 2,2'-iminodiethanol

2B

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

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

None of the ingredients are listed.

· **Probable routes of exposure:**

Ingestion.

Inhalation.

Eye contact.

Skin contact.

· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

· **Carcinogenicity:**

Based on IARC classifications and not the CLP classification.

Suspected of causing cancer.

· **Reproductive toxicity:**

Suspected of damaging the unborn child.

· **STOT-single exposure:** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

· **Aspiration hazard:** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:** The product contains materials that are harmful to the environment.

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

· **12.3 Bioaccumulative potential** No further relevant information available.

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

· **Additional ecological information:**

· **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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

## SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Small amounts may be diluted with plenty of water and washed away. Dispose of larger amounts in accordance with Local Authority requirements.

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The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

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

## SECTION 14: Transport information

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b><br>· DOT, ADR, IMDG, IATA                                | Not Regulated   |
| · <b>14.2 UN proper shipping name</b><br>· DOT, ADR, IMDG, IATA                  | Not Regulated   |
| · <b>14.3 Transport hazard class(es)</b><br>· DOT, ADR, IMDG, IATA<br>· Class    | Not Regulated   |
| · <b>14.4 Packing group</b><br>· DOT, ADR, IMDG, IATA                            | Not Regulated   |
| · <b>14.5 Environmental hazards:</b><br>· Marine pollutant:                      | No              |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |

## SECTION 15: Regulatory information

- |   |                                       |
|---|---------------------------------------|
| · <b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b><br>· United States (USA)<br>· SARA |                                       |
| · <b>Section 355 (extremely hazardous substances):</b>  |                                       |
|   | None of the ingredients are listed.   |
| · <b>Section 313 (Specific toxic chemical listings):</b>  |                                       |
|   | 111-77-3   2-(2-methoxyethoxy)ethanol |
| · <b>TSCA (Toxic Substances Control Act):</b>   |                                       |
|   | All ingredients are listed.           |

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- **Proposition 65 (California):**

- **Chemicals known to cause cancer:**

68603-42-9	coconut diethanolamide
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111-42-2	2,2'-iminodiethanol
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- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.	
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- **Chemicals known to cause reproductive toxicity for males:**

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

None of the ingredients are listed.	
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- **Carcinogenic Categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients are listed.	
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- **IARC (International Agency for Research on Cancer)**

68603-42-9	coconut diethanolamide	2B
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111-42-2	2,2'-iminodiethanol	2B
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- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.	
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- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.	
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- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 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.

- **Relevant phrases**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

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

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

- **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 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)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Carc. 2: Carcinogenicity, Hazard Category 2  
 Repr. 2: Reproductive toxicity, Hazard Category 2  
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2  
 Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1  
 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

**Sources**

Website, European Chemicals Agency (echa.europa.eu)  
 Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)  
 Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)  
 Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6  
 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
 Safety Data Sheets, Individual Manufacturers

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