

# Safety Data Sheet

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

Printing date: 08.10.2022


Revision: 08.10.2022

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

- **1.1 Product identifier**
- Trade name: **T-15 v.3**
- Article number: 100478
- **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:** Degreaser
- **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.  
(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**  
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
  - **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.  
The product is classified and labelled according to the CLP regulation.
  - **Hazard pictograms**
- 

GHS05
- **Signal word** Danger
  - **Hazard-determining components of labelling:**  
alcohols, ethoxylated, phosphate esters  
disodium metasilicate pentahydrate
  - **Hazard statements**  
H314 Causes severe skin burns and eye damage.
  - **Precautionary statements**

P260	Do not breathe mist/vapours/spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves / eye protection.

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

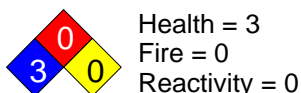
P363 Wash contaminated clothing before reuse.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P405 Store locked up.

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

• **NFPA ratings (scale 0 - 4)**



• **HMIS-ratings (scale 0 - 4)**



- **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: 1300-72-7 EINECS: 215-090-9	sodium xylenesulphonate ⚠ Eye Irrit. 2, H319	<10%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	<10%
CAS: 68130-47-2	alcohols, ethoxylated, phosphate esters ⚠ Skin Corr. 1C, H314	<10%
CAS: 10213-79-3 EINECS: 229-912-9	disodium metasilicate pentahydrate ⚠ Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ STOT SE 3, H335	<10%
CAS: 68439-46-3 NLP: 500-446-0	alcohols, C9-11, ethoxylated ⚠ Eye Dam. 1, H318	<10%

• **Additional information:**

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

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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 remove any clothing soiled by the product.  
Immediately rinse with water.  
If skin irritation continues, consult a doctor.  
Seek immediate medical help for blistering or open wounds.
- **After eye contact:**  
Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. Then 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**  
Cramp  
Nausea  
Caustic effect on skin and mucous membranes.  
Coughing  
Breathing difficulty
- **Hazards:**  
Danger of gastric perforation.  
Causes severe skin burns and eye damage.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
If necessary oxygen respiration treatment.

## 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.
- **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**  
Use respiratory protective device against the effects of fumes/dust/aerosol.

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Particular danger of slipping on leaked/spilled product.  
Wear protective equipment. Keep unprotected persons away.  
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.

Clean the affected area carefully; suitable cleaners are:

Warm water

Weak acid solution

- **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**

Open and handle receptacle with care.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Avoid contact with the eyes and skin.

- **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.

Use only receptacles specifically permitted for this substance/product.

Unsuitable material for receptacle: aluminium.

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

Do not store together with oxidising and acidic materials.

Store away from metals.

- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

- **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:

##### 111-76-2 2-butoxyethanol

PEL (USA)	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm Skin
REL (USA)	Long-term value: 24 mg/m <sup>3</sup> , 5 ppm Skin
TLV (USA)	Long-term value: 97 mg/m <sup>3</sup> , 20 ppm BEI
IOELV (EU)	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm Long-term value: 98 mg/m <sup>3</sup> , 20 ppm Skin

#### · Ingredients with biological limit values:

##### 111-76-2 2-butoxyethanol

BEI (USA)	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis
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### · 8.2 Exposure controls

#### · 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.
- Do not inhale gases / fumes / aerosols.

#### · Respiratory protection:

- Not required under normal conditions of use.
- Use suitable respiratory protective device in case of insufficient ventilation.
- For spills, respiratory protection may be advisable.
- Use suitable respiratory protective device when aerosol or mist is formed.

#### · Protection of hands:



Protective gloves

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

#### · Material of gloves Rubber gloves

#### · Eye protection:

- Contact lenses should not be worn.

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Safety glasses

- **Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

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

#### · Appearance

Form: Fluid

Colour: Blue

· Odour: Pleasant

· Odour threshold: Not determined.

· pH-value at 20 °C (68 °F): 12,0 - 13,5

· Melting point/Melting range: Not determined.

· Boiling point/Boiling range: 100 °C (212 °F)

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

· Auto/Self-ignition temperature: Not determined.

· Decomposition temperature: Not determined.

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

#### · Explosion limits

Lower: Not determined.

Upper: Not determined.

· Vapour pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)

· Density at 20 °C (68 °F): 1,03 - 1,05 g/cm<sup>3</sup> (8,595 - 8,762 lbs/gal)

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with water:

Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

#### · Viscosity

Dynamic: Not determined.

Kinematic: Not determined.

#### · 9.2 Other information

No further relevant information available.

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## 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 according to specifications.
- **10.3 Possibility of hazardous reactions**  
Reacts with strong acids and oxidising agents.  
Reacts with certain metals.
- **10.4 Conditions to avoid** Avoid acids.
- **10.5 Incompatible materials** Strong acids
- **10.6 Hazardous decomposition products** Carbon monoxide and carbon dioxide

## 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:

#### 111-76-2 2-butoxyethanol

Oral	LD50	1480 mg/kg (rat)
Dermal	LD50	1001-2000 mg/kg (rat) (Estimated)
Inhalative	LC50/4h	450 ppm (rat)

- **Primary irritant effect**
- **Skin corrosion/irritation:**  
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation:**  
Causes severe skin burns and eye damage.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Carcinogenic categories**

### · IARC (International Agency for Research on Cancer):

111-76-2	2-butoxyethanol	3
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### · 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 available data, the classification criteria are not met.

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- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **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:** No further relevant information available.
- **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.
- **Ecotoxicological effects:**
- **Remark:** After neutralisation a reduction of the harming action may be recognised.
- **Additional ecological information:**
- **General notes:**  
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. If the dilution of the use-level pH-value is considerably reduced, the aqueous waste, emptied into drains, is only low water-dangerous.  
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.  
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.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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## SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>	UN1760
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· DOT</li> <li>· ADR, IMDG</li> <li>· IATA</li> </ul>	Corrosive liquids, n.o.s. (Alcohols, ethoxylated, phosphate esters, Disodium trioxosilicate) CORROSIVE LIQUID, N.O.S. (Alcohols, ethoxylated, phosphate esters, Disodium trioxosilicate) Corrosive liquid, n.o.s. (Alcohols, ethoxylated, phosphate esters, Disodium trioxosilicate)
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· DOT</li> </ul>	<div style="text-align: center;">  <p>CORROSIVE</p> </div>
<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	8 Corrosive substances. 8
<ul style="list-style-type: none"> <li>· ADR</li> </ul>	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	8 (C9) Corrosive substances. 8
<ul style="list-style-type: none"> <li>· IMDG, IATA</li> </ul>	<div style="text-align: center;">  </div>
<ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	8 Corrosive substances. 8
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>	III
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· Marine pollutant:</li> </ul>	No
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· Danger code (Kemler):</li> <li>· EMS Number:</li> </ul>	Warning: Corrosive substances. 80 F-A,S-B

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· Segregation groups	Alkalis
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· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
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· Transport/Additional information:
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· DOT
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Limited Quantity for packages less than 30 kg and inner packagings less than 5 L.
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· ADR
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Limited Quantity for packages less than 30 kg and inner packagings less than 5 L.
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· IMDG
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Limited Quantity for packages less than 30 kg and inner packagings less than 5 L.
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· IATA
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Limited Quantity for packages less than 30 kg and inner packagings less than 1 L.
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### SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
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· United States (USA)
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· SARA
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· Section 355 (extremely hazardous substances):
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None of the ingredients are listed.
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· Section 313 (Specific toxic chemical listings):
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111-76-2   2-butoxyethanol
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· TSCA (Toxic Substances Control Act):
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All ingredients are listed.
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· Proposition 65 (California):
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· Chemicals known to cause cancer:
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None of the ingredients are listed.
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<ul style="list-style-type: none"> <li>- <b>Chemicals known to cause reproductive toxicity for females:</b></li> </ul>			
None of the ingredients are listed.			
<ul style="list-style-type: none"> <li>- <b>Chemicals known to cause reproductive toxicity for males:</b></li> </ul>			
None of the ingredients are listed.			
<ul style="list-style-type: none"> <li>- <b>Chemicals known to cause developmental toxicity:</b></li> </ul>			
None of the ingredients are listed.			
<ul style="list-style-type: none"> <li>- <b>Carcinogenic Categories</b></li> </ul>			
<ul style="list-style-type: none"> <li>- <b>EPA (Environmental Protection Agency)</b></li> </ul>			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">111-76-2</td> <td style="width: 70%;">2-butoxyethanol</td> <td style="width: 15%; text-align: center;">NL</td> </tr> </table>	111-76-2	2-butoxyethanol	NL
111-76-2	2-butoxyethanol	NL	
<ul style="list-style-type: none"> <li>- <b>IARC (International Agency for Research on Cancer)</b></li> </ul>			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">111-76-2</td> <td style="width: 70%;">2-butoxyethanol</td> <td style="width: 15%; text-align: center;">3</td> </tr> </table>	111-76-2	2-butoxyethanol	3
111-76-2	2-butoxyethanol	3	
<ul style="list-style-type: none"> <li>- <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b></li> </ul>			
None of the ingredients are listed.			
<ul style="list-style-type: none"> <li>- <b>Canadian Domestic Substances List (DSL)</b></li> </ul>			
All ingredients are listed.			
<ul style="list-style-type: none"> <li>- <b>Other regulations, limitations and prohibitive regulations</b></li> </ul>			
<ul style="list-style-type: none"> <li>- <b>Substances of very high concern (SVHC) according to REACH, Article 57</b></li> </ul>			
None of the ingredients are listed.			
<ul style="list-style-type: none"> <li>- <b>15.2 Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.</li> </ul>			

## 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**

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.

- **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  
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)

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NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
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  
LDLo: Lowest Lethal Dose Observed  
Met. Corr. 1: Corrosive to metals – Category 1  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Corr. 1C: Skin corrosion/irritation – Category 1C  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

**Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))  
Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do))  
Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))  
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. 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

SDS Prepared by:

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