



# Safety Data Sheet

Acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: March 11, 2019

Revision: March 11, 2019

## 1 Identification

- **Product identifier**
- **Trade name:** Extreme Resin Remover
- **Article number:** DAC111
- **Recommended use and restriction on use**
- **Recommended use:** Mold Cleaner/Degreaser
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
DAC Industries, Inc.  
1636 Gervais Avenue Suite 9  
Maplewood, MN 55109  
Phone: (651) 748-1750
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924 (North America)  
+1 (813)248-0585 (International)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**

Flam. Aerosol 2	H223	Flammable aerosol.
Press. Gas	H280	Contains gas under pressure; may explode if heated.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2A	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Muta. 2	H341	Suspected of causing genetic defects.
Carc. 1B	H350	May cause cancer.
Repr. 1B	H360	May damage fertility or the unborn child. Route of exposure: Oral.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
STOT RE 1	H372	Causes damage to the central nervous system through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS02 GHS04 GHS07 GHS08

- **Signal word:** Danger

- **Hazard statements:**

H223 Flammable aerosol.  
H280 Contains gas under pressure; may explode if heated.

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- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H360 May damage fertility or the unborn child. Route of exposure: Oral.
- H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
- H372 Causes damage to the central nervous system through prolonged or repeated exposure.
- H304 May be fatal if swallowed and enters airways.

**Precautionary statements:**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P260 Do not breathe mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P331 Do NOT induce vomiting.
- P302+P352 If on skin: Wash with plenty of soap and water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a poison center/doctor if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

64742-88-7	Solvent naphtha (petroleum), medium aliph. <div style="font-size: small; padding-left: 10px;"> <span style="color: red;">⚠</span> Flam. Liq. 3, H226  <span style="color: red;">⚠</span> STOT RE 1, H372; Asp. Tox. 1, H304  <span style="color: red;">⚠</span> Acute Tox. 4, H332         </div>	25-50%
872-50-4	N-methyl-2-pyrrolidone	10-25%

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	<ul style="list-style-type: none"> <li>⚠ Repr. 1B, H360</li> <li>⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335</li> <li>Flam. Liq. 4, H227</li> </ul>	
79-01-6	trichloroethylene <hr style="border-top: 1px dashed black;"/> <ul style="list-style-type: none"> <li>⚠ Muta. 2, H341; Carc. 1B, H350</li> <li>⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317; STOT SE 3, H336</li> </ul>	10-25%
124-38-9	Carbon dioxide <hr style="border-top: 1px dashed black;"/> <ul style="list-style-type: none"> <li>⚠ Press. Gas, H280</li> <li>Simple Asphyxiant</li> </ul>	<10%

**Additional information:**

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

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

**4 First-aid measures****Description of first aid measures****After inhalation:**

Supply fresh air and to be sure to call for a doctor.

In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately remove any clothing soiled by the product.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation or rash occurs: Get medical advice/attention.

**After eye contact:**

Protect unharmed eye.

Remove contact lenses if worn.

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

**After swallowing:**

Unlikely route of exposure.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

**Most important symptoms and effects, both acute and delayed:**

Headache

Breathing difficulty

Coughing

Dizziness

Cyanosis

Frostbite

Disorientation

Unconsciousness

**Danger:**

May be fatal if swallowed and enters airways.

Danger of impaired breathing.

Danger of cerebral edema.

Danger of convulsion.

Danger of disturbed cardiac rhythm.

Vapors have narcotic effect.

May cause cancer.

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- May cause damage to the central nervous system through prolonged or repeated exposure.  
May damage fertility or the unborn child. May cause harm to breast-fed children. Route of exposure: Oral.
- **Indication of any immediate medical attention and special treatment needed:**  
Medical supervision for at least 48 hours.  
If necessary oxygen respiration treatment.  
Monitor circulation, possible shock treatment.  
Later observation for pneumonia and pulmonary edema.  
Treat skin and mucous membrane with antihistamine and corticoid preparations.  
Do not administer preparations of the adrenalin-ephedrine-group.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Foam  
Water fog / haze  
Carbon dioxide  
Fire-extinguishing powder  
Gaseous extinguishing agents
- **For safety reasons unsuitable extinguishing agents:** Water stream.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
Danger of receptacles bursting because of high vapor pressure if heated.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information:**  
Cool endangered containers with water fog.  
Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Ensure adequate ventilation.  
Wear protective equipment. Keep unprotected persons away.  
Keep away from ignition sources.  
Protect from heat.
- **Environmental precautions**  
Do not allow to enter sewers/ surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up**  
Allow to evaporate.  
Absorb liquid components with non-combustible liquid-binding material.  
Send for recovery or disposal in suitable receptacles.
- **Reference to other sections**  
See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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## 7 Handling and storage

· **Handling**

· **Precautions for safe handling:**

- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Keep away from heat and direct sunlight.
- Pressurized container: Do not pierce or burn, even after use.
- Avoid splashes or spray in enclosed areas.
- Avoid contact with the eyes and skin.
- Avoid breathing mist, vapors, or spray.
- Keep out of reach of children.
- Handle with care.

· **Information about protection against explosions and fires:**

- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Keep respiratory protective device available.
- Do not spray on a naked flame or any incandescent material.
- Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120 °F / 49 °C, i.e. electric lights. Do not pierce or burn, even after use.

· **Conditions for safe storage, including any incompatibilities**

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

- Storage area should be dry and well-ventilated.
- Observe official regulations on storing packagings with pressurized containers.
- Avoid storage near extreme heat, ignition sources or open flame.

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

- Store away from foodstuffs.
- Store away from metals.
- Store away from oxidizing agents.

· **Further information about storage conditions:**

- Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- Storage Temperatures: <122 °F / <50 °C.

· **Specific end use(s)** No relevant information available.

## 8 Exposure controls/personal protection

· **Control parameters**

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

**872-50-4 N-methyl-2-pyrrolidone**

WEEL (USA)	Long-term value: 10 ppm Skin
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EV (Canada)	Long-term value: 400 mg/m <sup>3</sup>
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**79-01-6 trichloroethylene**

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PEL (USA)	Long-term value: 100 ppm Ceiling limit value: 200; 300* ppm *5-min peak in any 2 hrs
REL (USA)	See Pocket Guide Apps. A and C
TLV (USA)	Short-term value: 135 mg/m <sup>3</sup> , 25 ppm Long-term value: 54 mg/m <sup>3</sup> , 10 ppm BEI
EL (Canada)	Short-term value: 25 ppm Long-term value: 10 ppm ACGIH A2, IARC 1
EV (Canada)	Short-term value: 25 ppm Long-term value: 10 ppm
LMPE (Mexico)	Short-term value: 25 ppm Long-term value: 10 ppm A2, IBE

**124-38-9 Carbon dioxide**

PEL (USA)	Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
REL (USA)	Short-term value: 54,000 mg/m <sup>3</sup> , 30,000 ppm Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
TLV (USA)	Short-term value: 54,000 mg/m <sup>3</sup> , 30,000 ppm Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
EL (Canada)	Short-term value: 15000 ppm Long-term value: 5000 ppm
EV (Canada)	Short-term value: 54,000 mg/m <sup>3</sup> , 30,000 ppm Long-term value: 9,000 mg/m <sup>3</sup> , 5,000 ppm
LMPE (Mexico)	Short-term value: 30000 ppm Long-term value: 5000 ppm

**Ingredients with biological limit values:**

**872-50-4 N-methyl-2-pyrrolidone**

BEI (USA)	100 mg/L Medium: urine Time: end of shift Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone
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**79-01-6 trichloroethylene**

BEI (USA)	15 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Trichloroacetic acid (nonspecific)
	0.5 mg/L Medium: blood Time: end of shift at end of workweek Parameter: Trichloroethanol without hydrolysis (nonspecific)
	- Medium: blood Time: end of shift at end of workweek

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Parameter: Trichloroethylene (semi-quantitative)

-  
Medium: end-exhaled air  
Time: end of shift at end of workweek  
Parameter: Trichloroethylene (semi-quantitative)

· **Exposure controls**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.  
Pregnant women should strictly avoid inhalation or skin contact.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

· **Engineering controls:** No relevant information available.

· **Breathing equipment:**



Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

· **Protection of hands:**



Protective gloves

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

· **Eye protection:**



Safety glasses

· **Body protection:** Impervious protective clothing

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

Avoid release to the environment.

· **Risk management measures** No relevant information available.

## 9 Physical and chemical properties

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

· **Appearance:**

Form: Aerosol

Color: Clear

· **Odor:** Solvent-like

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

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

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· <b>Boiling point/Boiling range:</b>	85 °C (185 °F)
· <b>Flash point:</b>	Not applicable, as aerosol.
· <b>Flammability (solid, gaseous):</b>	Flammable aerosol.
· <b>Auto-ignition temperature:</b>	265 °C (509 °F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Danger of explosion:</b>	Not determined.
· <b>Explosion limits</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Oxidizing properties:</b>	Non-oxidizing.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density:</b>	
<b>Relative density:</b>	0.99
<b>Vapor density:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No relevant information available.

### 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- **Possibility of hazardous reactions**  
Flammable aerosol.  
Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.  
Develops readily flammable gases / fumes.  
Danger of receptacles bursting because of high vapor pressure if heated.  
Reacts with peroxides and other radical forming substances.  
Reacts with strong acids and alkali.  
Reacts with certain metals.  
Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid** Excessive heat.
- **Incompatible materials** Oxidizers
- **Hazardous decomposition products**  
Under fire conditions only:

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Carbon monoxide and carbon dioxide  
Chlorine compounds  
Hydrogen chloride (HCl)  
Phosgene

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**11 Toxicological information**

- **Information on toxicological effects**

- **Acute toxicity:** Based on available data, the classification criteria are not met.

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

**64742-88-7 Solvent naphtha (petroleum), medium aliph.**

Oral	LD50	>6500 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rabbit)
Inhalative	LC50/4h	>14 mg/l (rat)

**872-50-4 N-methyl-2-pyrrolidone**

Oral	LD50	4150 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rat)

**79-01-6 trichloroethylene**

Oral	LD50	2402 mg/kg (mouse)
Dermal	LD50	8450 mg/kg (mouse)

- **Primary irritant effect:**

- **On the skin:** Irritant to skin and mucous membranes.

- **On the eye:** Causes eye irritation.

- **Sensitization:**

Sensitizing effect through inhalation is possible with prolonged exposure.

Sensitization possible through skin contact.

- **Carcinogenic categories**

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

79-01-6	trichloroethylene	1
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- **NTP (National Toxicology Program):**

79-01-6	trichloroethylene	K
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- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

- **Probable route(s) of exposure:**

Inhalation.

Eye contact.

Skin contact.

- **Germ cell mutagenicity:** Suspected of causing genetic defects.

- **Carcinogenicity:** May cause cancer.

- **Reproductive toxicity:** May damage fertility or the unborn child. Route of exposure: Oral.

- **STOT-single exposure:**

May cause respiratory irritation.

May cause drowsiness or dizziness.

- **STOT-repeated exposure:**

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Causes damage to the central nervous system through prolonged or repeated exposure.  
· **Aspiration hazard:** May be fatal if swallowed and enters airways.

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## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** Harmful to aquatic life with long lasting effects.
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** May be accumulated in organism
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:**  
Avoid release to the environment.  
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **Other adverse effects** No relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Contact waste processors for recycling information.  
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 packagings**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**
- **DOT, ADR/RID/ADN, IMDG, IATA** UN1950
- **UN proper shipping name**
- **DOT** Aerosols
- **ADR/RID/ADN, IMDG** AEROSOLS
- **IATA** Aerosols, flammable, containing substances in Division 6.1, Packing Group III
- **Transport hazard class(es)**
- **DOT**



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· **Class** 2  
· **Label** 2.1, 6.1

· **ADR/RID/ADN**



· **Class** 2 5T  
· **Label** 2.1+6.1

· **IMDG**



· **Class** 2.2  
· **Label** 2.1/6.1

· **IATA**



· **Class** 2.2  
· **Label** 2.1 (6.1)

· **Packing group** Aerosols are not assigned a packing group.

· **Environmental hazards**

· **Marine pollutant:** No

· **Special precautions for user** Warning: Gases

· **Danger code (Kemler):** -

· **EMS Number:** F-D,S-U

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 120 mL.

· **ADR/RID/ADN**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 120 mL.

· **IMDG**

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Limited Quantity for packages less than 30 kg gross and inner packagings less than 120 mL.

· IATA



Limited Quantity for packages less than 30 kg gross and inner packagings less than 120 mL.

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

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

None of the ingredients are listed.

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

872-50-4 | N-methyl-2-pyrrolidone

79-01-6 | trichloroethylene

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Proposition 65 (California)**· **Chemicals known to cause cancer:**

79-01-6 | trichloroethylene

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

None of the ingredients are listed.

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

79-01-6 | trichloroethylene

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

872-50-4 | N-methyl-2-pyrrolidone

79-01-6 | trichloroethylene

· **EPA (Environmental Protection Agency):**

79-01-6 | trichloroethylene

CaH

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

79-01-6 | trichloroethylene

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## 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.

· **Date of preparation / last revision** March 11, 2019 / -

· **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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Aerosol 2: Aerosols – Category 2

Press. Gas: Gases under pressure – Compressed gas

Press. Gas: Gases under pressure – Liquefied gas

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Liq. 4: Flammable liquids – Category 4

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 1B: Carcinogenicity – Category 1B

Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1

· **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., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

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1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: [www.chemtelinc.com](http://www.chemtelinc.com)