

**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/06/2015

Reviewed on 06/06/2015

**\* 1 Identification**

- **Product identifier**
- **Trade name: ADAC L/O 424 GREY**
- **Product number: XFL424/1882**
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Micor Company Inc.  
3232 North 31st Street  
Milwaukee, WI 53216  
414-873-2071
- **Emergency telephone number: 24 HR CHEMTREC 800-424-9300**

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



GHS08 Health hazard

Muta. 2                    H341 Suspected of causing genetic defects.  
 Carc. 2                    H351 Suspected of causing cancer.  
 Repr. 2                    H361 Suspected of damaging fertility or the unborn child.



GHS09 Environment

Aquatic Chronic 2    H411 Toxic to aquatic life with long lasting effects.



GHS07

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.  
 STOT SE 3                    H335 May cause respiratory irritation.

- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07



GHS08



GHS09

- **Signal word** Warning
- **Hazard-determining components of labeling:**  
Bisphenol A Based Epoxy Resin  
Calcium Carbonate

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**Trade name: ADAC L/O 424 GREY**

butyl glycidyl ether  
4-nonylphenol, branched

**Hazard statements**

Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
Suspected of causing genetic defects.  
Suspected of causing cancer.  
Suspected of damaging fertility or the unborn child.  
May cause respiratory irritation.  
Toxic to aquatic life with long lasting effects.

**Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves.  
Wear eye protection / face protection.  
Avoid release to the environment.  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a poison center/doctor if you feel unwell.  
Wash contaminated clothing before reuse.  
IF exposed or concerned: Get medical advice/attention.  
If skin irritation occurs: Get medical advice/attention.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
If on skin: Wash with plenty of water.  
Collect spillage.  
Take off contaminated clothing and wash it before reuse.  
Store locked up.  
Store in a well-ventilated place. Keep container tightly closed.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

**Unknown acute toxicity:**

70 percent of the mixture consists of ingredient(s) of unknown toxicity.

**Classification system:****NFPA ratings (scale 0 - 4)****HMIS-ratings (scale 0 - 4)****Hazard(s) not otherwise classified (HNOC):** None known

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**Trade name: ADAC L/O 424 GREY****3 Composition/information on ingredients**

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous Components:**

CAS: 1317-65-3	Calcium Carbonate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	60-90%
CAS: 25085-99-8	Bisphenol A Based Epoxy Resin ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	15-35%
CAS: 2426-08-6 RTECS: TX 4200000	butyl glycidyl ether ⚠ Flam. Liq. 3, H226; ⚠ Muta. 2, H341; Carc. 2, H351; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	2-12%
CAS: 84852-15-3	4-nonylphenol, branched ⚠ Repr. 2, H361; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	≤ 2.5%
CAS: 101-02-0 RTECS: TH 1575000	triphenyl phosphite ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≤ 2.5%

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

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
If skin irritation occurs, consult a doctor.

· **After eye contact:**

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

DO NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

· **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

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

No further relevant information available.

**5 Fire-fighting measures**· **Extinguishing media**· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**· **Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

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**Trade name: ADAC L/O 424 GREY****6 Accidental release measures****· Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**· Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

**· Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

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

Dispose contaminated material as waste according to section 13.

**· 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.

**7 Handling and storage****· Handling:****· Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**· Information about protection against explosions and fires:** Keep away from heat, sparks and flame.**· Conditions for safe storage, including any incompatibilities****· Storage:****· Requirements to be met by storerooms and receptacles:**

Store in a cool, dry place away from sparks and flame.

**· Information about storage in one common storage facility:** See Section 10 (Incompatible materials)**· Further information about storage conditions:** Keep receptacle tightly sealed.**· Specific end use(s)** No further relevant information available.**\* 8 Exposure controls/personal protection****· Additional information about design of technical systems:** No further data; see section 7.**· Control parameters****· Components with occupational exposure limits:****1317-65-3 Calcium Carbonate**

NIOSH	Short-term value: 5 mg/m <sup>3</sup> Long-term value: 10 mg/m <sup>3</sup>
NIOSH TWA	Short-term value: 5 mg/m <sup>3</sup> Long-term value: 10 mg/m <sup>3</sup> respirable dust
OSHA	Short-term value: 5 mg/m <sup>3</sup> Long-term value: 15 mg/m <sup>3</sup>
OSHA TWA	Short-term value: 5 mg/m <sup>3</sup> Long-term value: 15 mg/m <sup>3</sup> respirable fraction

**2426-08-6 butyl glycidyl ether**

PEL	Long-term value: 270 mg/m <sup>3</sup> , 50 ppm
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**Trade name: ADAC L/O 424 GREY**

REL	Ceiling limit value: 30 mg/m <sup>3</sup> , 5.6 ppm *15-min
TLV	Long-term value: 16 mg/m <sup>3</sup> , 3 ppm Skin; DSEN

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls**

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:**



NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

· **Protection of hands:**



Protective gloves

· **Material of gloves** Chemical resistant

· **Penetration time of glove material**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:**



Protective work clothing

## 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

**Form:**

Viscous

**Color:**

Tan

· **Odor:**

Aromatic

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**Trade name: ADAC L/O 424 GREY**

- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/Melting range:** Not determined.
  - Boiling point/Boiling range:** Not determined.
- **Flash point:** 99 °C (210 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** > 300 °C (> 572 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower:** Not determined.
  - Upper:** Not determined.
- **Vapor pressure:** Not determined.
- **Density @ 20 °C (68 °F):** 1.872 g/cm<sup>3</sup> (15.622 lbs/gal)
- **Relative density** Not determined.
- **Vapor density** Heavier than air
- **Evaporation rate** Slower than n-butyl acetate
- **Solubility in / Miscibility with Water:** Slightly soluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Other information** No further relevant information available.

**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** Hazardous decomposition is unlikely except in the event of fire. The by-products expected in incomplete pyrolysis or combustion of epoxy resins are mainly phenolics, carbon monoxide and water. The thermal decomposition products of epoxy resins therefore should be treated as potentially hazardous substances and appropriate precautions should be taken.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Amines, anhydrides, acids and oxidizers.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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**Trade name: ADAC L/O 424 GREY****11 Toxicological information**· **Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:****25085-99-8 Bisphenol A Based Epoxy Resin**

Oral LD50 &gt;5000 mg/kg (rat)

Dermal LD50 20000 mg/kg (rabbit)

**2426-08-6 butyl glycidyl ether**

Oral LD50 2050 mg/kg (rat)

Dermal LD50 2520 mg/kg (rabbit)

**101-02-0 triphenyl phosphite**

Oral LD50 1600 mg/kg (rat)

· **Primary irritant effect:**· **on the skin:**

Irritant to skin and mucous membranes.

Emmissions from broken bulbs may cause an allergic skin reaction.

· **on the eye:** Causes serious eye irritation.· **Sensitization:** Sensitization possible through skin contact.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

112945-52-5 Amorphous Silica

3

· **NTP (National Toxicology Program)**

None of the ingredients are listed.

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

None of the ingredients are listed.

**12 Ecological information**· **Toxicity**· **Aquatic toxicity:**

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

· **Persistence and degradability** No further relevant information available.· **Behavior in environmental systems:**· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Ecotoxicological effects:**· **Remark:** Toxic for fish· **Additional ecological information:**· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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**Trade name: ADAC L/O 424 GREY**

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**\* 14 Transport information**

- **UN-Number**
  - **DOT, ADR, IATA**
  - **IMDG**
  - **UN proper shipping name**
  - **DOT, ADR, IATA**
  - **IMDG**
- Non-Regulated Material  
UN3082
- Non-Regulated Material  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-nonylphenol, branched, triphenyl phosphite), MARINE POLLUTANT
- **Transport hazard class(es)**
  - **DOT**
  - **Class**
- Non-Regulated Material
- 
- **ADR, IATA**
- 
- **Class**
- Non-Regulated Material
- 
- **IMDG**
- 
- **Class**
  - **Label**
  - **Packing group**
  - **DOT, ADR, IATA**
  - **IMDG**
  - **Environmental hazards:**
- 9 Miscellaneous dangerous substances and articles  
9
- Non-Regulated Material  
III  
Product contains environmentally hazardous substances: 4-nonylphenol, branched
- **Special marking (ADR):**
  - **Special marking (IATA):**
  - **Special precautions for user**
  - **EMS Number:**
- Symbol (fish and tree)  
Symbol (fish and tree)  
Not applicable.  
F-A,S-F

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**Trade name: ADAC L/O 424 GREY**

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

- **Transport/Additional information:**

- **IMDG**

- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation":**

-

**15 Regulatory information**

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

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

None of the ingredients are listed.

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

None of the ingredients are listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **California Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

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

1309-48-4 Magnesium Oxide

A4

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

None of the ingredients are listed.

- **GHS label elements**

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

- **Hazard pictograms**



GHS07 GHS08 GHS09

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Issue date 06/06/2015

Reviewed on 06/06/2015

**Trade name: ADAC L/O 424 GREY**

- **Signal word** Warning
- **Hazard-determining components of labeling:**  
Bisphenol A Based Epoxy Resin  
Calcium Carbonate  
butyl glycidyl ether  
4-nonylphenol, branched
- **Hazard statements**  
Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
Suspected of causing genetic defects.  
Suspected of causing cancer.  
Suspected of damaging fertility or the unborn child.  
May cause respiratory irritation.  
Toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves.  
Wear eye protection / face protection.  
Avoid release to the environment.  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a poison center/doctor if you feel unwell.  
Wash contaminated clothing before reuse.  
IF exposed or concerned: Get medical advice/attention.  
If skin irritation occurs: Get medical advice/attention.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
If on skin: Wash with plenty of water.  
Collect spillage.  
Take off contaminated clothing and wash it before reuse.  
Store locked up.  
Store in a well-ventilated place. Keep container tightly closed.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· **State Right to Know**

CAS: 1317-65-3	Calcium Carbonate	60-90%
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	

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**Safety Data Sheet (SDS)**

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**Trade name: ADAC L/O 424 GREY**

CAS: 25085-99-8	Bisphenol A Based Epoxy Resin ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	15-35%
CAS: 2426-08-6 RTECS: TX 4200000	butyl glycidyl ether ⚠ Flam. Liq. 3, H226; ⚠ Muta. 2, H341; Carc. 2, H351; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	2-12%
CAS: 84852-15-3	4-nonylphenol, branched ⚠ Repr. 2, H361; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	≤ 2.5%
CAS: 101-02-0 RTECS: TH 1575000	triphenyl phosphite ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≤ 2.5%
CAS: 1309-48-4	Magnesium Oxide ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≤ 2.5%
All ingredients are listed.		

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of preparation / last revision** 06/06/2015 / 3

- **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 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)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 Flam. Liq. 3: Flammable liquids, Hazard Category 3  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
 Muta. 2: Germ cell mutagenicity, Hazard Category 2  
 Carc. 2: Carcinogenicity, Hazard Category 2  
 Repr. 2: Reproductive toxicity, Hazard Category 2  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

- **\* Data compared to the previous version altered.**

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106

**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/09/2015

Reviewed on 06/09/2015

**1 Identification**

- **Product identifier**
- **Trade name:** L/O NONREGULATED HDR PH6300M
- **Product number:** L/O HDR NR
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Micor Company Inc.  
3232 North 31st Street  
Milwaukee, WI 53216  
414-873-2071
- **Emergency telephone number:** 24 HR CHEMTREC 800-424-9300

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



GHS05 Corrosion

Skin Corr. 1A      H314 Causes severe skin burns and eye damage.  
 Eye Dam. 1      H318 Causes serious eye damage.



GHS09 Environment

Aquatic Chronic 2      H411 Toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4      H302 Harmful if swallowed.  
 Acute Tox. 4      H312 Harmful in contact with skin.  
 Acute Tox. 4      H332 Harmful if inhaled.  
 Skin Sens. 1      H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

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

- **Hazard pictograms**



GHS05



GHS07



GHS09

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Poly(propylene glycol) bis(2-aminopropyl ether)  
 amines, polyethylenepoly-HEPA  
 Benzyl alcohol

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**Trade name: L/O NONREGULATED HDR PH6300M**

Triethylenetetramine reaction product with propylene oxide  
diethylenetriamine (DETA)

**· Hazard statements**

Harmful if swallowed, in contact with skin or if inhaled.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Toxic to aquatic life with long lasting effects.

**· Precautionary statements**

Do not breathe dusts or mists.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves.  
Wear protective gloves / protective clothing.  
Wear eye protection / face protection.  
Avoid release to the environment.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing must not be allowed out of the workplace.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Immediately call a poison center/doctor.  
If swallowed: Call a poison center/doctor if you feel unwell.  
Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Wash contaminated clothing before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
If on skin: Wash with plenty of water.  
Collect spillage.  
Take off contaminated clothing and wash it before reuse.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Classification system:****· NFPA ratings (scale 0 - 4)****· HMIS-ratings (scale 0 - 4)**

HEALTH	4	Health = 4
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

**· Hazard(s) not otherwise classified (HNOC): None known****3 Composition/information on ingredients****· Chemical characterization: Mixtures**

**· Description:** Mixture of substances listed below with nonhazardous additions.

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**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/09/2015

Reviewed on 06/09/2015

**Trade name: L/O NONREGULATED HDR PH6300M**

<b>· Dangerous Components:</b>		
CAS: 26950-63-0	Triethylenetetramine reaction product with propylene oxide ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317	15-35%
CAS: 9046-10-0	Poly(propylene glycol) bis(2-aminopropyl ether) ⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	15-35%
CAS: 68131-73-7	amines, polyethylenepoly-HEPA ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	15-35%
CAS: 100-51-6 RTECS: DN 3150000	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	15-35%
CAS: 112-24-3	triethylenetetramine ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	2-12%
CAS: 111-40-0 RTECS: IE 1225000	diethylenetriamine (DETA) ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	2-12%

**\* 4 First-aid measures****· Description of first aid measures****· General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**· After inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**· After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

**· After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.**· After swallowing:**

If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**· Information for doctor:****· Most important symptoms and effects, both acute and delayed:** No further relevant information available.**· Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5 Fire-fighting measures****· Extinguishing media****· Suitable extinguishing agents:** Use fire fighting measures that suit the environment.**· Special hazards arising from the substance or mixture** Toxic fumes are released in fire situation**· Advice for firefighters****· Protective equipment:**

Mouth respiratory protective device.

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

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### \* 6 Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

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

Ensure adequate ventilation.

Use neutralizing agent.

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

Dispose contaminated material as waste according to section 13.

- **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.

### \* 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- **Information about protection against explosions and fires:** No special measures required.

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

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store in a cool, dry place.

- **Information about storage in one common storage facility:** See Section 10 (Incompatible materials)

- **Further information about storage conditions:** Keep receptacle tightly sealed.

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

### \* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.

- **Control parameters**

- **Components with occupational exposure limits:**

**100-51-6 Benzyl alcohol**

WEEL	Long-term value: 10 ppm
------	-------------------------

**112-24-3 triethylenetetramine**

WEEL	Long-term value: 6 mg/m <sup>3</sup> , 1 ppm
	Skin

**111-40-0 diethylenetriamine (DETA)**

REL	Long-term value: 4 mg/m <sup>3</sup> , 1 ppm
	Skin

TLV	Long-term value: 4.2 mg/m <sup>3</sup> , 1 ppm
	Skin

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

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- **Exposure controls**

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Breathing equipment:**



NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

- **Protection of hands:**



Protective gloves

- **Material of gloves** Chemical resistant

- **Penetration time of glove material**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:**



Protective work clothing

### \* 9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

**Form:**

Liquid

**Color:**

Yellow

- **Odor:**

Amine-like

- **Odor threshold:**

Not determined.

- **pH-value:**

Not determined.

- **Change in condition**

**Melting point/Melting range:**

Not determined.

**Boiling point/Boiling range:**

201 °C (394 °F)

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**Trade name: L/O NONREGULATED HDR PH6300M**

- **Flash point:** 121 °C (250 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 240 °C (464 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower: 0.7 Vol %
  - Upper: 13.0 Vol %
- **Vapor pressure @ 20 °C (68 °F):** 0.1 hPa
- **Density @ 20 °C (68 °F):** 1.01 g/cm<sup>3</sup> (8.428 lbs/gal)
- **Relative density** Not determined.
- **Vapor density** Heavier than air
- **Evaporation rate** Slower than n-butyl acetate
- **Solubility in / Miscibility with Water:** Soluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- **Solvent content:**
  - Organic solvents: 15.0 %
  - VOC content: 15.0 %
- **Other information** No further relevant information available.

**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** Hazardous decomposition is unlikely except in event of fire. In the event of overheating or incomplete combustion, Oxides of Nitrogen, Carbon dioxide and Carbon Monoxide.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Avoid contact with epoxies, isocyanates, acids.
- **Incompatible materials:** Epoxies, isocyanates, acids.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**

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

**26950-63-0 Triethylenetetramine reaction product with propylene oxide**

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

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**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/09/2015

Reviewed on 06/09/2015

**Trade name: L/O NONREGULATED HDR PH6300M**

<b>9046-10-0 Poly(propylene glycol) bis(2-aminopropyl ether)</b>		
Oral	LD50	2885.3 mg/kg (rat)
Dermal	LD50	2980 mg/kg (rabbit) Skin - rabbit - Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days. - OECD Test Guideline 404.
Inhalative	LC50/4 h	>0.74 mg/l (rat) (8 hours)
<b>100-51-6 Benzyl alcohol</b>		
Oral	LD50	1230 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
<b>112-24-3 triethylenetetramine</b>		
Oral	LD50	2500 mg/kg (rat)
Dermal	LD50	805 mg/kg (rabbit)
<b>111-40-0 diethylenetriamine (DETA)</b>		
Oral	LD50	1080 mg/kg (rat)
Dermal	LD50	1090 mg/kg (rabbit)

- **Primary irritant effect:**

- **on the skin:**

- Strong caustic effect on skin and mucous membranes.

- Emmissions from broken bulbs may cause an allergic skin reaction.

- **on the eye:**

- Strong irritant with the danger of severe eye injury.

- Corrosive effect.

- Causes serious eye irritation.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

- The product shows the following dangers according to internally approved calculation methods for preparations:

- Harmful

- Corrosive

- Irritant

- Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- **Carcinogenic categories**

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

- None of the ingredients are listed.

- **NTP (National Toxicology Program)**

- None of the ingredients are listed.

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

- None of the ingredients are listed.

**12 Ecological information**

- **Toxicity**

- **Aquatic toxicity:**

- Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

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

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Reviewed on 06/09/2015

**Trade name: L/O NONREGULATED HDR PH6300M**

- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Generally not hazardous for water.  
Must not reach bodies of water or drainage ditch undiluted or unneutralized.  
Poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
Observe all federal, state and local environmental regulations when disposing of this material.  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Incineration is acceptable and the preferred method of disposal. However, nitrogen oxide emission controls may be required to meet specifications.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN2922
- **UN proper shipping name**
- **DOT** Corrosive liquids, toxic, n.o.s. (Poly(propylene glycol) bis(2-aminopropyl ether), Diethylenetriamine)
- **ADR** UN2922 Corrosive liquids, toxic, n.o.s. (Poly(propylene glycol) bis(2-aminopropyl ether), Diethylenetriamine), ENVIRONMENTALLY HAZARDOUS
- **IMDG** CORROSIVE LIQUID, TOXIC, N.O.S. (Poly(propylene glycol) bis(2-aminopropyl ether), DIETHYLENETRIAMINE), MARINE POLLUTANT
- **IATA** CORROSIVE LIQUID, TOXIC, N.O.S. (Poly(propylene glycol) bis(2-aminopropyl ether), DIETHYLENETRIAMINE)
- **Transport hazard class(es)**
- **DOT**



- **Class** 8 Corrosive substances

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**Trade name: L/O NONREGULATED HDR PH6300M**

· **Label** 8, 6.1

---

· **ADR**



· **Class** 8 (CT1) Corrosive substances  
 · **Label** 8+6.1

---

· **IMDG**



· **Class** 8 Corrosive substances  
 · **Label** 8/6.1

---

· **IATA**



· **Class** 8 Corrosive substances  
 · **Label** 8 (6.1)  
 · **Packing group** III  
 · **DOT, ADR, IMDG, IATA** III  
 · **Environmental hazards:** Product contains environmentally hazardous substances: amines, polyethylenepoly-HEPA  
 · **Special marking (ADR):** Symbol (fish and tree)  
 · **Special precautions for user** Warning: Corrosive substances  
 · **Danger code (Kemler):** 86  
 · **EMS Number:** F-A,S-B  
 · **Segregation groups** Alkalis  
 · **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.  
 · **Transport/Additional information:**  
 · **DOT**  
 · **Quantity limitations** On passenger aircraft/rail: 5 L  
 On cargo aircraft only: 60 L

---

· **ADR**

· **Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml

---

· **IMDG**

· **Limited quantities (LQ)** 5L

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Reviewed on 06/09/2015

**Trade name: L/O NONREGULATED HDR PH6300M**

- **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- **UN "Model Regulation":** UN2922, Corrosive liquids, toxic, n.o.s. (Poly(propylene glycol) bis(2-aminopropyl ether), Diethylenetriamine), ENVIRONMENTALLY HAZARDOUS, 8 (6.1), III

**15 Regulatory information**

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

· <b>Section 355 (extremely hazardous substances):</b>
--

None of the ingredients are listed.
-------------------------------------

· <b>Section 313 (Specific toxic chemical listings):</b>
--

None of the ingredients are listed.
-------------------------------------

· <b>TSCA (Toxic Substances Control Act):</b>
---

All ingredients are listed.
-----------------------------

· <b>California Proposition 65</b>
------------------------------------

· <b>Chemicals known to cause cancer:</b>
---

None of the ingredients are listed.
-------------------------------------

· <b>Chemicals known to cause reproductive toxicity for females:</b>
--

None of the ingredients are listed.
-------------------------------------

· <b>Chemicals known to cause reproductive toxicity for males:</b>
--

None of the ingredients are listed.
-------------------------------------

· <b>Chemicals known to cause developmental toxicity:</b>
---

None of the ingredients are listed.
-------------------------------------

· <b>Carcinogenic categories</b>
----------------------------------

· <b>EPA (Environmental Protection Agency)</b>
--

None of the ingredients are listed.
-------------------------------------

· <b>TLV (Threshold Limit Value established by ACGIH)</b>
---

None of the ingredients are listed.
-------------------------------------

· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
---

None of the ingredients are listed.
-------------------------------------

· <b>GHS label elements</b>
-----------------------------

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

· <b>Hazard pictograms</b>
----------------------------



GHS05 GHS07 GHS09

· <b>Signal word</b> Danger
-----------------------------

· <b>Hazard-determining components of labeling:</b>
---

Poly(propylene glycol) bis(2-aminopropyl ether) amines, polyethylenepoly-HEPA
---

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Issue date 06/09/2015

Reviewed on 06/09/2015

**Trade name: L/O NONREGULATED HDR PH6300M**

Benzyl alcohol  
Triethylenetetramine reaction product with propylene oxide  
diethylenetriamine (DETA)

**· Hazard statements**

Harmful if swallowed, in contact with skin or if inhaled.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Toxic to aquatic life with long lasting effects.

**· Precautionary statements**

Do not breathe dusts or mists.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves.  
Wear protective gloves / protective clothing.  
Wear eye protection / face protection.  
Avoid release to the environment.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing must not be allowed out of the workplace.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Immediately call a poison center/doctor.  
If swallowed: Call a poison center/doctor if you feel unwell.  
Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Wash contaminated clothing before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
If on skin: Wash with plenty of water.  
Collect spillage.  
Take off contaminated clothing and wash it before reuse.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

**· National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

**· State Right to Know**

CAS: 26950-63-0	Triethylenetetramine reaction product with propylene oxide ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317	15-35%
CAS: 9046-10-0	Poly(propylene glycol) bis(2-aminopropyl ether) ⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	15-35%
CAS: 68131-73-7	amines, polyethylenepoly-HEPA ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	15-35%
CAS: 100-51-6 RTECS: DN 3150000	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	15-35%

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Issue date 06/09/2015

Reviewed on 06/09/2015

**Trade name: L/O NONREGULATED HDR PH6300M**

CAS: 112-24-3	triethylenetetramine ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	2-12%
CAS: 111-40-0 RTECS: IE 1225000	diethylenetriamine (DETA) ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	2-12%
All ingredients are listed.		

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision** 06/09/2015 / 1

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 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)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A  
 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
 Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B  
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1  
 Aquatic Acute 3: Hazardous to the aquatic environment - AcuteHazard, Category 3  
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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

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