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Safety Data Sheet

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

Printing date: 02.08.2016 Revision: 02.08.2016

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

1.1 Product identifier

· Trade name: Emulso v.3 · Article number: 100925

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: Bath cleaner

1.3 Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

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



· 1.4 Emergency telephone number:

ChemTel Inc.

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

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

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

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

STOT SE 3 H335 May cause respiratory irritation.

- · 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 GHS07

- · Signal word Danger
- Hazard-determining components of labelling:

hydrochloric acid

didecyldimethylammonium chloride

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Hazard statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

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· Precautionary statements

P260 Do not breathe mist/vapours/spray. P264 Wash thoroughly after handling. Wear protective gloves / eye protection. P280 P271 Use only outdoors or in a well-ventilated area.

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.

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

Wash contaminated clothing before reuse. P363 P312 Call a POISON CENTER/doctor if you feel unwell.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

regulations.

· NFPA ratings (scale 0 - 4)



Health = 3 Fire = 0Reactivity = 1

· HMIS-ratings (scale 0 - 4)



3 Health = 3 □ Fire = 0 REACTIVITY 1 Reactivity = 1

- 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: 7647-01-0	hydrochloric acid	10-20%
EINECS: 231-595-7 Index number: 017-002-00-2	Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 STOT SE 3, H335	
CAS: 9016-45-9 NLP: 500-024-6	4-nonylphenyl-polyethylene glycol Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319	<1%
	(Cont'd	on page 3

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	(Cont'd. fi	rom page 2)
CAS: 1643-20-5	dodecyldimethylamine oxide	<1%
EINECS: 216-700-6	Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 2, H411 Acute Tox. 4, H302; Skin Irrit. 2, H315	
CAS: 7173-51-5	didecyldimethylammonium chloride	<0,1%
EINECS: 230-525-2	Skin Corr. 1B, H314	
Index number: 612-131-00-6	Aquatic Acute 1, H400; Aquatic Chronic 2, H411 Acute Tox. 4, H302	
CAS: 68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl,	<0,1%
EINECS: 270-325-2	chlorides	
	Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
0.410	Acute Tox. 4, H302	

·SVHC

9016-45-9 4-nonylphenyl-polyethylene glycol

Additional information:

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

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After inhalation:

Supply fresh air.

Seek medical treatment in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

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

After skin contact:

Immediately remove any clothing soiled by the product.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· 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

Strong caustic effect on skin and mucous membranes.

Breathing difficulty

Coughing

Gastric or intestinal disorders.

· Hazards:

Danger of impaired breathing.

Causes serious eye damage.

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

Medical supervision for at least 48 hours. If necessary oxygen respiration treatment.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · 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.

· Additional information:

Cool endangered receptacles with water spray.

Evacuate area and fight fire from from the upwind side.

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.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

6.2 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.

6.3 Methods and material for containment and cleaning up

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

Clean the affected area carefully; suitable cleaners are:

Warm water

Ensure adequate ventilation.

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

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Prevent formation of aerosols.

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- Information about fire and explosion protection: Keep respiratory protective device available.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:

Store in a cool location.

Provide ventilation for receptacles.

Unsuitable material for receptacle: steel.

Unsuitable material for receptacle: aluminium.

Information about storage in one common storage facility:

Store away from oxidising agents.

Do not store together with alkalis (caustic solutions).

Store away from foodstuffs.

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.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

7647-01-0 hydrochloric acid

IOLLV (LO)	ponori-term value. To mg/m, To ppm
	Long-term value: 8 mg/m³, 5 ppm
	Ceiling limit: 7 mg/m³, 5 ppm
REL (USA)	Ceiling limit: 7 mg/m³, 5 ppm

IOELV (ELI) Short-term value: 15 mg/m³ 10 nnm

REL (USA) | Ceiling limit: 7 mg/m³, 5 ppm TLV (USA) | Ceiling limit: 2,98 mg/m³, 2 ppm

- · 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.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

Protection of hands:



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

For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR Neoprene gloves

Fluorocarbon rubber (Viton)

· Eye protection:



Safety glasses

· Body protection: Acid resistant protective clothing

9.1 Information on basic physic	al and chamical proportios	
Appearance	ai and chemical properties	
Form:	Viscous	
Colour:	White	
Odour:	Pungent	
Odour threshold:	Not determined.	
pH-value at 20 °C (68 °F):	< 2	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	Not determined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Auto/Self-ignition temperature:		
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):	1,2 g/cm³ (10,014 lbs/gal)	
Relative density:	Not determined.	
Vapour density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
water:	Fully miscible.	

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Viscosity

Dynamic: Not determined. **Kinematic:** Not determined.

9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Reacts with metals forming hydrogen.

Reacts with alkali (Ives).

Corrosive action on metals.

Reacts with strong oxidising agents.

Develops toxic gases/fumes.

- 10.4 Conditions to avoid Store away from oxidising agents.
- 10.5 Incompatible materials

Warning! Do not use together with other products. May release dangerous gases (chlorine).

· 10.6 Hazardous decomposition products

Hydrogen chloride (HCI)

Chlorine compounds

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:
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7647-01-0 hydrochloric acid

Oral LD50 900 mg/kg (rabbit)

68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Oral LD50 344 mg/kg (rat)
Dermal LD50 3340 mg/kg (rabbit)

7173-51-5 didecyldimethylammonium chloride

Oral LD50 84 mg/kg (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.

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- · Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
- · 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.

· Probable routes of exposure:

Ingestion.

Inhalation

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

May cause respiratory irritation.

- · 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:

68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

LC50 0,28 mg/l (pimephales promelas)

EC50 0,0059 mg/l (daphnia)

7173-51-5 didecyldimethylammonium chloride

EC50 0,071 mg/kg (daphnia) (48 hr)

LC50 | 0,49 mg/l (zebra fish) (96 hr)

- 12.2 Persistence and degradability A part of the components is biodegradable.
- · 12.3 Bioaccumulative potential Does not accumulate in organisms.
- · 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark:

Toxic for algae

After neutralisation a reduction of the harming action may be recognised.

- · Additional ecological information:
- · General notes:

This statement was deduced from the properties of the single components.

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

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Harmful to aquatic organisms

- 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.

drochloric acid DROCHLORIC ACID
Corrosive substances.
C1) Corrosive substances.

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(Cont'd. from page 9) · Label · IMDG, IATA · Class 8 Corrosive substances. · Label · 14.4 Packing group · DOT, ADR, IMDG, IATA Ш 14.5 Environmental hazards: · Marine pollutant: No · 14.6 Special precautions for user Warning: Corrosive substances. Danger code (Kemler): · EMS Number: F-A.S-B · Segregation groups Acids · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · DOT Limited Quantity for packages less than 30 kg and inner packagings less than 5 L. · ADR Limited Quantity for packages less than 30 kg and inner packagings less than 5 L. ·IMDG Limited Quantity for packages less than 30 kg and inner packagings less than 5 L. ·IATA 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
- United States (USA)
- ·SARA
- · Section 355 (extremely hazardous substances):

7647-01-0 hydrochloric acid

· Section 313 (Specific toxic chemical listings):

7647-01-0 hydrochloric acid

TSCA (Toxic Substances Control Act):

All ingredients are listed.

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

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product. Present in trace quantities.

64-17-5 ethanol

· 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:

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product. Present in trace quantities.

64-17-5 ethanol

- Carcinogenic Categories
- EPA (Environmental Protection Agency)

None of the ingredients are listed.

IARC (International Agency for Research on Cancer)

64-17-5 ethanol

|1

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

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL)

All ingredients are listed.

- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57

9016-45-9 4-nonylphenyl-polyethylene glycol

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

· Abbreviations and acronyms:

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

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

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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

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