



Safety Data Sheet dated 5/4/2018, version 12

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

- 1.1. Product identifier
Trade name: DETERSOL
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
FOR PROFESSIONAL USE
- 1.3. Details of the supplier of the safety data sheet
Company:
Esseco S.r.l. Via San Cassiano 99
28069 - Treocate (NO)
Italy
- Enartis - Phone n. +39-0321-790300
Competent person responsible for the safety data sheet: vino@enartis.it
- 1.4. Emergency telephone number
Enartis - Phone n. +39-0321-790300

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)
⚠ Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
⚠ Danger, Eye Dam. 1, Causes serious eye damage.
Adverse physicochemical, human health and environmental effects:
No other hazards
- 2.2. Label elements
Hazard pictograms:
- Danger
Hazard statements:
H314 Causes severe skin burns and eye damage.
Precautionary statements:
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.
P310 Immediately call a doctor.
- Special Provisions:
None
- Contains
Sulphuric acid (15-35%)
Special provisions according to Annex XVII of REACH and subsequent amendments:
None
- 2.3. Other hazards
vPvB Substances: None - PBT Substances: None

Other Hazards:
 No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 40% - < 50%	Sulphuric acid (15-35%)	Index number: 016-020-00-8 CAS: 7664-93-9 EC: 231-639-5 REACH No.: 01-2119458838-20-XXXX	⚠ 3.2/1A Skin Corr. 1A H314

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sulphuric acid (15-35%) - CAS: 7664-93-9

OSHA - TWA: 1 mg/m³ - Notes: A2

OSHA - TWA: 0.2 mg/m³ - Notes: Thoracic fraction

EU - Notes: 0,05 thoracic fraction

ACGIH - TWA(8h): 0.2 mg/m³ - Notes: (T), A2(M) - Pulm func

DNEL Exposure Limit Values

Sulphuric acid (15-35%) - CAS: 7664-93-9

Consumer: 0.1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute)

Consumer: 0.05 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term (repeated)

PNEC Exposure Limit Values

Sulphuric acid (15-35%) - CAS: 7664-93-9
 Target: Marine water - Value: 0.002 mg/l
 Target: Fresh Water - Value: 0.0025 mg/l

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection.

Suitable material:

UNI EN 420/UNI EN 374

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour:	Liquid	
Odour:	Characteristic	
Odour threshold:	N.A.	
pH:	± 1.00	
Melting point / freezing point:	-5°C	
Initial boiling point and boiling range:	>200°C	
Solid/gas flammability:	N.A.	
Upper/lower flammability or explosive limits:		N.A.
Vapour density:	N.A.	
Flash point:	N.A.	
Evaporation rate:	N.A.	
Vapour pressure:	N.A.	
Relative density:	± 1.390 g/mL	
Solubility in water:	100%	
Solubility in oil:	0%	
Partition coefficient (n-octanol/water):		N.A.
Auto-ignition temperature:	N.A.	
Decomposition temperature:	N.A.	
Viscosity:	N.A.	
Explosive properties:	N.A.	
Oxidizing properties:	N.A.	

9.2. Other information

Miscibility:	N.A.	
Fat Solubility:	N.A.	
Conductivity:	N.A.	
Substance Groups relevant properties		N.A.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

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- None
- 10.4. Conditions to avoid
 - Do not mix with alkalis and chlorine
- 10.5. Incompatible materials
 - Light metals
- 10.6. Hazardous decomposition products
 - None

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

DETERSOL

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Corr. 1A H314

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Sulphuric acid (15-35%) - CAS: 7664-93-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2140 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 510 mg/m³ - Duration: 2h

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

DETERSOL

Not classified for environmental hazards

Based on available data, the classification criteria are not met

Sulphuric acid (15-35%) - CAS: 7664-93-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 44.56 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish = 42 mg/l - Duration h: 96

- 12.2. Persistence and degradability
N.A.
- 12.3. Bioaccumulative potential
N.A.
- 12.4. Mobility in soil
N.A.
- 12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects
None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



- 14.1. UN number
 - ADR-UN Number: 2796
 - IATA-UN Number: 2796
 - IMDG-UN Number: 2796
- 14.2. UN proper shipping name
 - ADR-Shipping Name: SULPHURIC ACID
 - IATA-Shipping Name: SULPHURIC ACID
 - IMDG-Shipping Name: SULPHURIC ACID
- 14.3. Transport hazard class(es)
 - ADR-Class: 8
 - ADR-Label: 8
 - ADR - Hazard identification number: 80
 - IATA-Class: 8
 - IATA-Label: 8
 - IMDG-Class: 8
 - IMDG-Class: 8
- 14.4. Packing group
 - ADR-Packing Group: II
 - IATA-Packing group: II
 - IMDG-Packing group: II
- 14.5. Environmental hazards
 - ADR-Enviromental Pollutant: No
 - IMDG-Marine pollutant: No
- 14.6. Special precautions for user
 - Rail (RID): 8
 - ADR-Subsidiary risks: -
 - ADR-S.P.: -
 - ADR-Transport category (Tunnel restriction code): (E)
 - IATA-Passenger Aircraft: 851
 - IATA-Subsidiary risks: -
 - IATA-Cargo Aircraft: 855
 - IATA-S.P.: -
 - IATA-ERG: 8L
 - IMDG-EmS: F-A , S-B

IMDG-Subsidiary risks: -
 IMDG-Stowage and handling: Category B
 IMDG-Segregation: -

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
 Dir. 98/24/EC (Risks related to chemical agents at work)
 Dir. 2000/39/EC (Occupational exposure limit values)
 Regulation (EC) n. 1907/2006 (REACH)
 Regulation (EC) n. 1272/2008 (CLP)
 Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 Regulation (EU) 2015/830
 Regulation (EU) n. 286/2011 (ATP 2 CLP)
 Regulation (EU) n. 618/2012 (ATP 3 CLP)
 Regulation (EU) n. 487/2013 (ATP 4 CLP)
 Regulation (EU) n. 944/2013 (ATP 5 CLP)
 Regulation (EU) n. 605/2014 (ATP 6 CLP)
 Regulation (EU) n. 2015/1221 (ATP 7 CLP)
 Regulation (EU) n. 2016/918 (ATP 8 CLP)
 Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

None

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H314 Causes severe skin burns and eye damage.

Hazard class and hazard category	Code	Description
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Eye Dam. 1	3.3/1	Serious eye damage, Category 1

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification
SECTION 8: Exposure controls/personal protection
SECTION 15: Regulatory information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Corr. 1A, H314	On basis of test data (pH)
Eye Dam. 1, H318	On basis of test data (pH)

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
N.A.: Not Available
PNEC: Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.

TWA: Time-weighted average
WGK: German Water Hazard Class.