

James Law (Chemicals) LTD

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture Detergent Degreaser
Registration number -
Synonyms None.
Issue date 16-July-2015 Revision date: 01/11/2019
Version number 02

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Preparatory and cleaning products
Uses advised against No other uses are advised.

1.3. Details of the supplier of the safety data sheet

UK

Company name James Law (Chemicals Ltd)
Address Crossley Street Works
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UK

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1.4 Emergency telephone number +44(0)1706 644940

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

| | | |
|-----------------------------------|------------|-----------------------------------|
| Skin corrosion/irritation | Category 2 | H315 - Causes skin irritation. |
| Serious eye damage/eye irritation | Category 1 | H318 - Causes serious eye damage. |

Hazard summary

Irritating to eyes and skin. Risk of serious damage to eyes.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 2-Butoxyethanol, Alcohols, C9-11, Ethoxylated (6.5 MEO), Disodium Metasilicate

Hazard pictograms



Signal word Danger

Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements

Prevention

| | |
|------|---------------------------------------|
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P260 | Do not breathe vapour. |
| P264 | Wash hands thoroughly after handling. |
| P280 | Wear protective gloves. |
| P280 | Wear eye/face protection. |

Response

| | |
|--------------------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P302 + P352 | IF ON SKIN: Wash with plenty of water. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER/doctor. |
| P321 | Specific treatment (see this label). |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |

Storage Not required

Disposal Not required

Supplemental label information EUH208 - Contains Pine Extract. May produce an allergic reaction.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | INDEX No. | Notes |
|---------------|---|------------------|------------------------|-----------|-------|
|---------------|---|------------------|------------------------|-----------|-------|

| | | | | | |
|-----------------------|---------|-------------------------|-----------------------|--------------|--|
| Disodium Metasilicate | 3 - < 5 | 10213-79-3 229-912-9 | 01-2119449811-37-xxxx | 014-010-00-8 | |
|-----------------------|---------|-------------------------|-----------------------|--------------|--|

Classification:

CLP: Met. Corr. 1;H290, Skin Corr. 1B;H314, STOT SE 3;H335

| | | | | | |
|-----------------------------|---------|------------------------|-----------------------|--------------|--|
| Trisodium nitrilotriacetate | 3 - < 5 | 5064-31-3 225-768-6 | 01-2119519239-36-xxxx | 607-620-00-6 | |
|-----------------------------|---------|------------------------|-----------------------|--------------|--|

Classification:

CLP: Acute Tox. 4;H302, Eye Irrit. 2;H319, Carc. 2;H351

| | | | | | |
|-----------------|---------|-----------------------|-----------------------|--------------|---|
| 2-Butoxyethanol | 1 - < 3 | 111-76-2 203-905-0 | 01-2119475108-36-xxxx | 603-014-00-0 | # |
|-----------------|---------|-----------------------|-----------------------|--------------|---|

Classification:

CLP: Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Irrit. 2;H319

| | | | | | |
|--|---------|-------------------------|---|---|--|
| Alcohols, C9-11, Ethoxylated (6.5 MEO) | 1 - < 3 | 68439-46-3 614-482-0 | - | - | |
|--|---------|-------------------------|---|---|--|

Classification:

CLP: Eye Dam. 1;H318

List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

#: This substance has been assigned Community workplace exposure limit(s).

Composition comments

The full text for all H-phrases is displayed in section 16.

SECTION 4: First aid measures

| | |
|--|---|
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |
| 4.1. Description of first aid measures | |
| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| Skin contact | Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| 4.2. Most important symptoms and effects, both acute and delayed | May cause temporary blindness and severe eye damage. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. |
| 4.3. Indication of any immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. |

SECTION 5: Firefighting measures

| | |
|---|---|
| General fire hazards | No unusual fire or explosion hazards noted. |
| 5.1. Extinguishing media | |
| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| 5.2. Special hazards arising from the substance or mixture | During fire, gases hazardous to health may be formed. |
| 5.3. Advice for firefighters | |
| Special protective equipment for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Special fire fighting procedures | Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |

SECTION 6: Accidental release measures

| | |
|---|--|
| 6.1. Personal precautions, protective equipment and emergency procedures | |
| For non-emergency personnel | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not breathe vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8. |
| For emergency responders | Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS. |
| 6.2. Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |
| 6.3. Methods and material for containment and cleaning up | Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. |
| 6.4. Reference to other sections | For personal protection, see section 8. For waste disposal, see section 13 of the SDS. |

SECTION 7: Handling and storage

| | |
|---|--|
| 7.1. Precautions for safe handling | Do not breathe vapour. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
|---|--|

7.2. Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits****UK. EH40 Workplace Exposure Limits (WELs)**

| Components | Type | Value |
|----------------------------|------|-----------------------|
| 2-Butoxyethanol (111-76-2) | STEL | 246 mg/m ³ |
| | | 50 ppm |
| | TWA | 123 mg/m ³ |
| | | 25 ppm |

EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents.

| Components | Type | Value |
|----------------------------|------|-----------------------|
| 2-Butoxyethanol (111-76-2) | STEL | 246 mg/m ³ |
| | | 50 ppm |
| | TWA | 98 mg/m ³ |
| | | 20 ppm |

Biological limit values**UK. EH40 Biological Monitoring Guidance Values (BMGVs)**

| Components | Value | Determinant | Specimen | Sampling time |
|----------------------------|--------------|-------------------|---------------------|------------------------------|
| 2-Butoxyethanol (111-76-2) | 240 mmol/mol | Butoxyacetic acid | Creatinine in urine | Sampling time: End of shift. |

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL)

| Components | Type | Route | Value | Form |
|---|----------|------------|-----------------------|----------------------------|
| Trisodium nitrilotriacetate (CAS 5064-31-3) | Consumer | Oral | 0,9 mg/kg bw/day | Acute Systemic effects |
| | | Oral | 0,3 mg/kg bw/day | Long term Systemic effects |
| | Industry | Inhalation | 9,6 mg/m ³ | Acute Systemic effects |
| | | Inhalation | 3,2 mg/m ³ | Long term Systemic effects |

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment**General information**

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

Do not get in eyes. Wear safety glasses with side shields (or goggles).

Skin protection**- Hand protection**

Wear appropriate chemical resistant gloves.

- Other

Wear appropriate chemical resistant clothing. Normal work clothing (long sleeved shirts and long pants) is recommended.

| | |
|--|---|
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| Thermal hazards | Not applicable. |
| Hygiene measures | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |
| Environmental exposure controls | Environmental manager must be informed of all major releases. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

| | |
|-----------------------|-----------------------------|
| Physical state | Liquid. |
| Form | aqueous-organic solution |
| Colour | Colourless to light yellow. |

Odour Slight. Amine-like.

Odour threshold Not applicable

pH 9.0 - 11.0 estimated

Melting point/freezing point Not applicable

Initial boiling point and boiling range Not applicable

Flash point Not applicable

Evaporation rate Not applicable

Flammability (solid, gas) Not applicable

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not applicable

Flammability limit - upper (%) Not applicable

Vapour pressure Not applicable

Vapour density Not applicable

Relative density Not available.

Solubility(ies)

Solubility (water) Miscible

Solubility (other) Not available.

Auto-ignition temperature Not applicable

Decomposition temperature Not applicable

Viscosity Not applicable

Explosive properties Not applicable

Oxidizing properties Not applicable

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Contact with incompatible materials.

10.5. Incompatible materials None known.

10.6. Hazardous decomposition products No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

Eye contact Causes serious eye damage.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause temporary blindness and severe eye damage.

11.1. Information on toxicological effects

| Components | Species | Test results |
|---|------------|---------------------------------------|
| 2-Butoxyethanol (CAS 111-76-2) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | > 2000 mg/kg, 24 hours semi-occlusive |
| | Rat | > 2000 mg/kg, 24 hours occlusive |
| <i>Oral</i> | | |
| LD50 | Guinea pig | 1414 mg/kg |
| NOAEC | Guinea pig | 500 mg/kg single dose |
| Trisodium nitrilotriacetate (CAS 5064-31-3) | | |
| Acute | | |
| <i>Oral</i> | | |
| LD50 | Monkey | 750 mg/kg |
| | Mouse | 681 mg/kg |
| | Rat | 1100 mg/kg |

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory sensitisation Due to partial or complete lack of data the classification is not possible.

Skin sensitisation Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

Carcinogenicity Due to partial or complete lack of data the classification is not possible.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - single exposure Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - repeated exposure Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Mixture versus substance information No information available.

Other information May cause allergic respiratory and skin reactions.

SECTION 12: Ecological information

12.1. Toxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Contains a substance which causes risk of hazardous effects to the environment.

| Components | | Species | Test results |
|---|------|--|--------------------------|
| 2-Butoxyethanol (CAS 111-76-2) | | | |
| Aquatic | | | |
| Fish | LC50 | Inland silverside (<i>Menidia beryllina</i>) | 1250 mg/l, 96 hours |
| Alcohols, C9-11, Ethoxylated (6.5 MEO) (CAS 68439-46-3) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (<i>Daphnia magna</i>) | 2.9 - 8.5 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (<i>Pimephales promelas</i>) | 6 - 12 mg/l, 96 hours |
| Trisodium nitrilotriacetate (CAS 5064-31-3) | | | |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (<i>Pimephales promelas</i>) | 93 - 170 mg/l, 96 hours |

* Estimates for product may be based on additional component data not shown.

12.2. Persistence and degradability No data is available on the degradability of this product.

12.3. Bioaccumulative potential No data available.

Partition coefficient n-octanol/water (log Kow)

2-Butoxyethanol 0,83

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment Not available.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code This substance/mixture is not intended to be transported in bulk.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use

Not regulated.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed.

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding.

Trisodium nitrilotriacetate (CAS 5064-31-3)

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

2-Butoxyethanol (CAS 111-76-2)

Trisodium nitrilotriacetate (CAS 5064-31-3)

Directive 94/33/EC on the protection of young people at work

Trisodium nitrilotriacetate (CAS 5064-31-3)

Other regulations This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product is classified and labelled in accordance with EC directives or respective national laws. Additional information is given in the Material Safety Data Sheet.

National regulations Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out.

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of New and Existing Chemicals (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No |

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

SECTION 16: Other information

List of abbreviations Not available.

References Not available.

Information on evaluation method leading to the classification of mixture The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

- 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.
- H351 Suspected of causing cancer.

Revision information None.

Training information Follow training instructions when handling this material.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

MANUFACTURER DISCLAIMER: The information given within this SDS is correct to the best of our knowledge, information and belief at the date of its revision and publication. However, the manufacturer makes no representation, warranty or guarantee as to its accuracy, reliability or completeness, nor assumes any liability for its use. It is the user's responsibility to confirm in advance that the information is current, applicable and suitable to their circumstances for each particular use. No representative of ours has authority to waive this provision. Please call for document accuracy if the revision date has exceeded 3 years.