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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: ENGINE AND CHASSIS CLEANER

1.2 Relevant identified uses of the substance/mixture and uses advised against

Heavy duty pressure cleaning additive/chassis cleaner

1.3 Details of the supplier of the safety data sheet

SUPPLIER:

CHEMICAL SOLUTIONS UK
42 Kennel Lane
Fetcham
SURREY
08452500943
sales@chemical-solutions.co.uk

1.4 Emergency telephone number

07904953893

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under CLP Regs.: Skin Corr. 1B, H314

2.2 Label elements

Label elements under CLP:

Contains: Sodium hydroxide

Hazard pictograms: GHS05



Signal Word: Danger

Hazard Statements: H314: Causes severe skin burns and eye damage.

Precautionary statements: PREVENTION: Keep only in original container. Do not breathe mist/spray. Wash hands thoroughly after handling. Wear protective gloves, clothing and eye protection.

RESPONSE: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

STORAGE: Store locked up.

2.3 Other hazards

PBT: this material does not contain any substance identified as a PBT or vPvB substance

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3. Composition/information on ingredients

3.1 Substances N/A

3.2 Mixtures

Hazardous ingredients:

| CAS | EINECS | Classification CLP | Concentration %w/w |
|---|-----------|---|--------------------|
| Phosphonate salt | | | |
| | | Skin irrit.2 H315; Eye irrit.2 H319 | 1-3 |
| Trisodium nitriloacetate (REACH Reg. No. 01-2119519239-36) | | | |
| 6834-92-0 | 229-912-9 | Acute tox. 4 H302; Eye irrit.2 H319 Carc. 2 H351 | 1-3 |
| Ethoxylated alcohol C9/11 9EO | | | |
| 68439-45-2 | | Acute tox.4 H302; Eye dam.1 H318 | 1-3 |
| Sodium hydroxide_(REACH Reg.01-2119457892-27) | | | |
| 1310-73-2 | 215-185-5 | Met. Corr. 1 H290 Skin corr. 1A – H314 | 1-3 |
| Ethoxylated alcohol | | | |
| 68439-46-3 | | Eye dam. 1 H318 | 0-1 |
| Reaction products of C12-18(even num.)- alkylamines and acrylic acid and sodium hydroxide (REACH Reg.No 01-2119980672-29) | | | |
| | | Eye irrit. 2 H319 | 0-1 |
| 1-Propanaminium, 3 amino-N(carboxy methyl)N, N, dimethyl N coco acyl derivs., inner salts. | | | |
| 61789-40-0 | | Acute tox. 4 H302; Eye dam. 1 H318; Aquatic chr. 3 H412 | 0-1 |

See section 16 for full text of H statements.

4. First aid measures

4.1 Description of first aid measures

Eye contact: Flush with clean water for at least 15 minutes. Seek medical advice.

Skin contact:Remove at once all contaminated clothing. Wash area with soap and water. Seek medical advice if irritation persists.

Ingestion: DO NOT induce vomiting. Give milk or water to drink and seek immediate medical attention.

Inhalation: Move to fresh air. Seek medical attention if recovery is not rapid or complete

4.2 Most important symptoms and effects both acute and delayed

There may be irritation and redness at site of contact

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Product is not flammable although irritating fumes may be given off in the event of fire. Choice of extinguisher should be based on other surrounding materials. Containers may be kept cool with water spray.

Unsuitable agents:

5.2 Special hazards arising from the substance or mixture

Carbon dioxide and carbon monoxide may be produced

5.3 Advice for firefighters

Wear protective clothing to prevent contact in event of bursting containers

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to sect. 8 of this SDS for protective clothing

6.2 Environmental precautions

Uncontrolled discharges into water courses must be notified to the appropriate regulatory authorities

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6.3 Methods and material for containment and cleaning up

Small spillages may be rinsed away with plenty of water. Larger spillages should be contained and soaked up in inert medium such as sand or suitable sorbent material. Transfer to a labelled, sealed plastic container for disposal in accordance with local regulations.

6.4 Reference to other sections

See section 8 for personal protective measures.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container, tightly closed and out of reach of children. Do not mix with other chemicals.

7.3 Specific end use

See sect. 1.2

8. Exposure controls/personal protection

8.1 Control parameters

Substances assigned Workplace Exposure Limits

| Name | type | Long term | Short term |
|------------------|------|-----------|-----------------------------|
| Sodium Hydroxide | WEL | | (15mins) 2mg/m ³ |

8.2 Exposure controls

Engineering measures: Ensure good ventilation.

Hands: Wear rubber or PVC gloves if skin contact is unavoidable.

Eyes: Safety goggles.

Skin: Appropriate workwear to prevent skin contact.

Respiratory: Avoid working in spray mist. Exposure limits apply to exposure by inhalation and are unlikely to be reached in normal use.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Clear liquid, colourless to pale amber

Odour: Slight

Density at 20°C: 1.07kg/ltr

Boiling point/range: >100°C

Oxidising: No

pH (1% solution): 11-12

Solubility: Completely soluble in water.

Flash point: N/A

Vapour pressure: N/A

9.2 Other information

No further relevant information.

10. Stability and reactivity

10.1 Reactivity

Not reactive under normal conditions but see section 10.5

10.2 Chemical stability

Stable under normal conditions of transport and storage.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal conditions. See sect. 10.5

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10.4 Conditions to avoid

No special measures

10.5 Incompatible materials

Alkaline products can react with light metals (aluminium, tin, zinc) with the evolution of hydrogen gas. Avoid contact with acids, strong oxidising agents.

10.6 Hazardous decomposition products

Oxides of carbon and other fumes may be produced on decomposition at very high temperatures.

11. Toxicological information

11.1 Information on toxicological effects.

Sodium hydroxide LD₅₀: 325mg/kg (oral, rat)

Ethoxylated alcohol C9-11: LD₅₀: >200<2000mg/kg (oral, rat)

Eyes: Severe pain, redness and watering.

Skin: Irritation, redness and defatting leading to cracking.

Ingestion: Sore throat and mouth, abdominal pain, vomiting.

Inhalation (mist): Coughing, shortness of breath, irritation to membranes of nose and throat.

12. Ecological information

12.1 Toxicity

Sodium hydroxide LC₅₀, 96hrs, fish: 33 - 189mg/l

Ethoxylated alcohol LC₅₀, 96hrs, fish: 1- 10mg/l

12.2 Persistence and degradability

Components are biodegradable.

12.3 Bioaccumulative potential

The product will not bioaccumulate.

12.4 Mobility in soil

The product is soluble in water.

12.5 Results of PBT and vPvB assessment

The product does not contain any ingredient identified as a PBT or vPvB substance.

12.6 Other adverse effects

Uncontrolled discharge of concentrate may have adverse effects on aquatic organisms due to pH effects.

13. Disposal considerations

13.1 Waste treatment methods

Comply with local regulations. Do not allow concentrate to enter water systems. Residues should be disposed of as controlled waste to a licensed site.

Packaging: Used packaging should be cleaned thoroughly with water and may be suitable for recycling.

14. Transport information

14.1 UN Number

UN 1719

14.2 UN Proper shipping name

CAUSTIC ALKALI LIQUID NOS (SODIUM HYDROXIDE)

14.3 Transport hazard class(es)

Class 8

14.4 Packing group

Group III

14.5 Environmental hazards

No

14.6 Special precautions for user



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15.Regulatory information

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

Detergent Regulations. Contains: less than 5% non-ionic surfactants, amphoteric surfactants, phosphonates, NTA.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

16.Other information

This safety data sheet has been prepared according to EU Commission Regulation 453/2010

The information supplied in this document is based on our present state of knowledge and is given in good faith. It is not intended and should not be construed as a specification or guarantee of specific properties. The responsibility remains with the user to comply with all relevant laws, regulations and directives, to make their own assessment of workplace risks and to determine the suitability of the product for a particular use or application.

The hazards information in this data sheet refers to the material as supplied and not to any subsequent dilution or mixture. The full text of the H statements referred to in section 3 are shown below. These classifications apply to the ingredients, in their concentrated form, which contribute to the classification of the product or mixture

H290: May be corrosive to metals. H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H318: Causes serious eye damage. H319: Causes serious eye irritation. H351: Suspected of causing cancer

Abbreviations and Acronyms

| | |
|------------------|--|
| ADR | European Agreement concerning the International Carriage of Goods by Road |
| CAS | Chemical Abstracts Service |
| CHIP | Chemicals (Hazard Information and Packaging) Regulations – Directives 1999/45/EC and 67/548/EC |
| CLP | Classification and Labelling of Chemicals – Regulation (EC) No. 1272/2008 |
| CMR | Carcinogenic-mutagenic-toxic for reproduction |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| GHS | Globally Harmonised System of Classification and Labelling of Chemicals |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods Code |
| LC ₅₀ | Lethal Concentration, 50% |
| LD ₅₀ | Lethal Dose, 50% |
| OEL | Occupational Exposure Limit |
| PBT | Persistent, Bioaccumulative, Toxic |
| vPvB | very Persistent, very Bioaccumulative |
| RID | Convention concerning International Carriage by Rail |
| WEL | Workplace Exposure Limit |
| VOC | Volatile Organic Compound |