

Technol

KALSEDON SYN 680

REGULATION (EC) No 1272/2008 ***

For the full text of the H-Statements mentioned in this Section, see Section 2.2. ***

Classification***

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008***

2.2. Label elements

Labelled according to REGULATION (EC) No 1272/2008***

Signal Word

None***

Hazard Statements ***

None***

Precautionary statements

None***

Supplemental Hazard Statements

EUH210 - Safety data sheet available on request***

2.3. Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.***

Environmental properties Should not be released into the environment.***

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture***

Chemical nature The product is made from synthetic base oils (polyalkylene glycol).

| Chemical Name | EC-No | REACH Registration Number | CAS-No | Weight % | GHS Classification |
|---|--------------|---------------------------------|-------------|----------|-----------------------------|
| Benzenepropanoicacid, 3,5-bis (1,1-dimethyl-ethyl)-4-hydrox y-C7-C9 branched alkyl ester*** | 406-040-9*** | no data available | 125643-61-0 | 1-<2.5 | Aquatic Chronic 4 (H413)*** |

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4: FIRST AID MEASURES

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4.1. Description of first aid measures

| | |
|----------------|--|
| General advice | IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.*** |
| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids.*** |
| Skin contact | Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse.*** |
| Inhalation | Move to fresh air. |
| Ingestion | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.*** |

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

| | |
|--------------|---|
| Eye contact | Not classified. |
| Skin contact | Not classified. |
| Inhalation | Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system. |
| Ingestion | Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |

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

| | |
|--------------------|------------------------|
| Notes to physician | Treat symptomatically. |
|--------------------|------------------------|

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | Carbon dioxide (CO ₂). ABC powder. Foam. Water spray or fog. |
| Unsuitable Extinguishing Media | Do not use a solid water stream as it may scatter and spread fire. |

5.2. Special hazards arising from the substance or mixture

| | |
|----------------|--|
| Special hazard | Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. |
|----------------|--|

5.3. Precautions for fire-fighters

Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective suit. **fire-fighters**

| | |
|-------------------|---|
| Other information | Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing |
|-------------------|---|

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water must be disposed of in accordance with local regulations.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General Information Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

6.2. Environmental precautions

General Information Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Dam up. Contain spillage, and then collect with non-combustable absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Personal protective equipment See Section 8 for more detail.

Waste treatment See section 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

Prevention of fire and explosion Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Preferably keep in the original container. Otherwise, reproduce all the statutory information from the labels onto the new container. Do not remove the hazard

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labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

Materials to avoid Strong oxidising agents.***

7.3. Specific use(s)

Specific use(s) No information available.***

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parametres

Exposure limits Mineral oil mist:
USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined)***

Legend See section 16

Derived No Effect Level (DNEL) ***

DNEL Worker (Industrial/Professional)

| Chemical Name | Short term, systemic effects | Short term, local effects | Long term, systemic effects | Long term, local effects |
|---|------------------------------|---------------------------|--|--------------------------|
| Benzenepropanoicacid, 3,5-bis (1,1-dimethyl-ethyl)-4-hydroxy-C7-C9 branched alkyl ester*** 125643-61-0 | | | 0.5 mg/kg Dermal 3.5 mg/m ³ Inhalation | |

DNEL Consumer

| Chemical Name | Short term, systemic effects | Short term, local effects | Long term, systemic effects | Long term, local effects |
|---|------------------------------|---------------------------|--------------------------------------|--------------------------|
| Benzenepropanoicacid, 3,5-bis (1,1-dimethyl-ethyl)-4-hydroxy-C7-C9 branched alkyl ester*** 125643-61-0 | | | 0.25 mg/kg Dermal 0.25 mg/kg Oral | |

Predicted No Effect Concentration (PNEC)

| Chemical Name | Water | Sediment | Soil | Air | STP | Oral |
|--|--|---------------------------------------|------------|-----|---------|------|
| Benzenepropanoic acid, 3,5-bis (1,1-dimethyl-ethyl)-4-hydroxy-C7-C9 branched alkyl ester*** 125643-61-0 | 0.01 mg/l fw 0.001 mg/l mw 1 mg/l or | 0.37 mg/kg dw fw 0.037 mg/kg dw mw | 3.16 mg/kg | | 10 mg/l | |

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8.2. Exposure controls

Occupational Exposure Controls

| | |
|--------------------------------------|---|
| Engineering measures | Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment. |
| Personal protective equipment | |
| General Information | If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied. |
| Respiratory protection | None under normal use conditions. In case of vapours and aerosol formation: Respirator with combination filter for vapour/particulate (EN 14387). Type A/P1. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.*** |
| Eye protection | If splashes are likely to occur, wear: Safety glasses with side-shields. |
| Skin and body protection | Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. |
| Hand protection | Protective gloves: Fluorinated rubber, Nitrile rubber. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency.*** |

Environmental exposure controls

| | |
|----------------------------|---|
| General Information | The product should not be allowed to enter drains, water courses or the soil. |
|----------------------------|---|

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|----------------------|--------------------------|
| Appearance | Clear*** |
| Colour | yellow to amber*** |
| Physical state @20°C | liquid*** |
| Odour | characteristic*** |
| Odour Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> | <u>Method</u> |
|-----------------------------|---------------|-----------------------------|---------------|
| pH | | Not applicable*** | |
| Melting point/range *** | *** | Not applicable*** | *** |
| *** | *** | *** | *** |
| Boiling point/boiling range | | No information available*** | |
| Flash point *** | 230*** °C*** | | ISO 2592*** |

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| | | | |
|------------------------------------|----------------------------------|-----------------------------|--------------|
| Evaporation rate | 446*** °F*** | No information available*** | ISO 2592*** |
| Burning time, 100 mm (s) *** | *** | No information available*** | |
| Flammability Limits in Air | | No information available | |
| Upper *** | *** | No information available*** | *** |
| Lower *** | *** | No information available*** | *** |
| Vapour pressure | | No information available*** | |
| Vapour density | | No information available*** | |
| Relative density *** | *** 1.003*** | @ 15 °C*** | ISO 3675*** |
| Density | 1003*** kg/m ³ *** | @ 15 °C*** | ISO 3675*** |
| Water solubility | | Insoluble*** | |
| Solubility in other solvents | | No information available*** | |
| logPow | | No information available*** | |
| Autoignition temperature *** | | No information available*** | |
| Decomposition temperature *** | *** | No information available*** | *** |
| Viscosity, kinematic *** | *** 680*** mm ² /s*** | @ 40 °C *** | ISO 3104 *** |
| Explosive properties | Not explosive*** | | |
| Oxidising properties | Not applicable*** | | |
| Possibility of hazardous reactions | No information available*** | | |

9.2. Other information

| | | |
|----------------|-----|-----------------------------|
| Freezing point | *** | No information available*** |
| | *** | |

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

| | |
|---------------------|------------------------------|
| General Information | No information available.*** |
|---------------------|------------------------------|

10.2. Chemical stability

| | |
|-----------|--|
| Stability | Stable under recommended storage conditions. |
|-----------|--|

10.3. Possibility of hazardous reactions

| | |
|---------------------|-------------------------------|
| Hazardous reactions | None under normal processing. |
|---------------------|-------------------------------|

10.4. Conditions to Avoid

| | |
|---------------------|--|
| Conditions to Avoid | Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.*** |
|---------------------|--|

10.5. Incompatible materials

| | |
|--------------------|-----------------------------|
| Materials to avoid | Strong oxidising agents.*** |
|--------------------|-----------------------------|

10.6. Hazardous Decomposition Products

| | |
|----------------------------------|------------------------|
| Hazardous Decomposition Products | None under normal use. |
|----------------------------------|------------------------|

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Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity Local effects Product Information

| | |
|--------------------------------------|---|
| Skin contact | . Not classified. |
| Eye contact | . Not classified. |
| Inhalation | . Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system. |
| Ingestion | . Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |
| ATEmix (oral) | 175,439.00*** |
| ATEmix (dermal) | 175,439.00*** |
| ATEmix (inhalation-gas) | 99,999.00*** |
| ATEmix (inhalation-dust/mist) | 357.90*** mg/l |
| ATEmix (inhalation-vapour) | 99,999.00*** |

Acute toxicity - Component Information

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--|--|------------------------------------|-----------------|
| Benzenepropanoicacid, 3,5-bis (1,1-dimethyl-ethyl)-4-hydroxy-C7-C9 branched alkyl ester*** | LD50 rat > 2000 mg/kg (Rat - OECD 401) | LD50 > 2000 mg/kg (Rat - OECD 402) | |

Sensitisation

Sensitisation Not classified as a sensitizer.

Specific effects

Carcinogenicity This product is not classified carcinogenic.
Mutagenicity This product is not classified as mutagenic.
Reproductive toxicity This product does not present any known or suspected reproductive hazards.

Repeated Dose Toxicity

Subchronic Toxicity No information available.

Target Organ Effects (STOT)

Target Organ Effects (STOT) No information available.

Other information

Other adverse effects Characteristic skin lesions (oil blisters) may develop following prolonged and repeated exposures (contact with contaminated clothing).***

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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Not classified.

Acute aquatic toxicity - Product Information

No information available.

Acute aquatic toxicity - Component Information

| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates. | Toxicity to fish | Toxicity to microorganisms |
|---|---|--|---|----------------------------|
| Benzenepropanoicacid, 3,5-bis (1,1-dimethyl-ethyl)-4-hydroxy-C7-C9 branched alkyl ester*** 125643-61-0 | EC50 (72 h) > 3 mg/l Scenedesmus (OECD201) | EC50 (24 h) > 100 mg/l Daphnia magna (OECD 202) | LC50 (96 h) > 74 mg/l Brachydanio rerio (OECD 203) | |

Chronic aquatic toxicity - Product Information

No information available.

Chronic aquatic toxicity - Component Information

| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates. | Toxicity to fish | Toxicity to microorganisms |
|---|-------------------|---|------------------|----------------------------|
| Benzenepropanoicacid, 3,5-bis (1,1-dimethyl-ethyl)-4-hydroxy-C7-C9 branched alkyl ester*** 125643-61-0 | | NOEC (21d) <= 0.01 mg/l Daphnia magna semi static (OECD 211) | | |

Effects on terrestrial organisms

No information available.***

12.2. Persistence and Degradability

General Information

No information available.

12.3. Bioaccumulative potential

Product Information

No information available.***

logPow

No information available***

Component Information

| Chemical Name | log Pow |
|--|---------|
| Benzenepropanoicacid, 3,5-bis (1,1-dimethyl-ethyl)-4-hydroxy-C7-C9 branched alkyl ester*** - 125643-61-0 | 9.2 |

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12.4. Mobility in soil

| | |
|-------|--|
| Soil | Given its physical and chemical characteristics, the product generally shows low soil mobility.*** |
| Air | Loss by evaporation is limited.*** |
| Water | Insoluble. The product spreads on the surface of the water.*** |

12.5. Results of PBT and vPvB assessment

| | |
|-------------------------|------------------------------|
| PBT and vPvB assessment | No information available.*** |
|-------------------------|------------------------------|

12.6. Other adverse effects

| | |
|---------------------|------------------------------|
| General Information | No information available.*** |
|---------------------|------------------------------|

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

| | |
|---------------------------------------|--|
| Waste from residues / unused products | Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. |
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of in accordance with local regulations.*** |
| EWC Waste Disposal No | The following Waste Codes are only suggestions: 13 02 06. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. |

Section 14: TRANSPORT INFORMATION

| | |
|-------------------------|---------------|
| <u>ADR/RID</u> | not regulated |
| <u>IMDG/IMO</u> | not regulated |
| <u>ICAO/IATA</u> | not regulated |
| <u>ADN</u> | not regulated |

Section 15: REGULATORY INFORMATION

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

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88/379/EEC (Classification and Labelling):

Symbols:

Xn Harmful

R Phrases:

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

S Phrases:

S2 Keep out of reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of WATER

EC label.

Contents:

2,4,6-tris(dimethylaminomethyl)phenol

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H413 - May cause long lasting harmful effects to aquatic life***

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists bw

= body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

dw = dry weight

fw = fresh water mw

= marine water

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or = occasional release

Legend Section 8

TWA: Time Weight Average

STEL: Short Time Exposure Limit

| | | | |
|----|--------------------|----|-----------------------|
| + | Sensitiser | * | Skin designation |
| ** | Hazard Designation | C: | Carcinogen |
| M: | Mutagen | R: | Toxic to reproduction |

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of Safety Data Sheet