SAFETY DATA SHEET

Alkylate Standard Mix

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

1.1 Product identifier

Product name: Alkylate Standard Mix
Index number: 649-274-00-9
EC number: 265-066-7
CAS number: 64741-64-6
Part No.: G2933-85227

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

<table>
<thead>
<tr>
<th>Identified uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical chemistry.</td>
</tr>
<tr>
<td>1 ml</td>
</tr>
</tbody>
</table>

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000
e-mail address of person responsible for this SDS: pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation): CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mono-constituent substance
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>H225 FLAMMABLE LIQUIDS</td>
<td>2</td>
</tr>
<tr>
<td>H331 ACUTE TOXICITY: INHALATION</td>
<td>3</td>
</tr>
<tr>
<td>H315 SKIN CORROSION/IRRITATION</td>
<td>2</td>
</tr>
<tr>
<td>H319 SERIOUS EYE DAMAGE/ EYE IRRITATION</td>
<td>2</td>
</tr>
<tr>
<td>H340 GERM CELL MUTAGENICITY</td>
<td>1B</td>
</tr>
<tr>
<td>H350 CARCINOGENICITY</td>
<td>1B</td>
</tr>
<tr>
<td>H304 ASPIRATION HAZARD</td>
<td>1</td>
</tr>
<tr>
<td>H410 AQUATIC TOXICITY (CHRONIC)</td>
<td>1</td>
</tr>
</tbody>
</table>

Classification according to Directive 67/548/EEC [DSD]

F; R11
Xn; R20
Xi; R38

See Section 16 for the full text of the R phrases or H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Date of issue/Date of revision: 28/08/2013
SECTION 2: Hazards identification

Signal word : Danger

Hazard statements : Highly flammable liquid and vapour.
                  Toxic if inhaled.
                  Causes serious eye irritation.
                  Causes skin irritation.
                  May cause genetic defects.
                  May cause cancer.
                  May be fatal if swallowed and enters airways.
                  Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : Obtain special instructions before use. Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Avoid release to the environment.

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

Storage : Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

Tactile warning of danger : Not applicable.

Special packaging requirements

2.3 Other hazards


P: Not available. B: No. T: Yes.


vP: Not available. vB: No.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

Substance/mixture : Mono-constituent substance

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Classification</th>
<th>Date of issue/Date of revision</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>67/548/EEC</td>
<td>28/08/2013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Regulation (EC) No. 1272/2008 [CLP]</td>
<td>2/12</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Type</td>
<td>2/12</td>
</tr>
</tbody>
</table>
Alkylate Standard Mix

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>EC: 265-066-7</th>
<th>CAS: 64741-64-6</th>
<th>Index: 649-274-00-9</th>
<th>F: R11 Xn; R20 Xi; R38</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), full-range alkylate</td>
<td>Flam. Liq. 2, H225</td>
<td>Acute Tox. 3, H331</td>
<td>Skin Irrit. 2, H315</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td></td>
<td>Mut. 1B, H340</td>
<td>Carc. 1B, H350</td>
<td>Asp. Tox. 1, H304</td>
<td>Aquatic Chronic 1, H410</td>
</tr>
<tr>
<td></td>
<td>See Section 16 for the full text of the R-phrases declared above.</td>
<td>See Section 16 for the full text of the H statements declared above.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type
[A] Constituent
[B] Impurity
[C] Stabilising additive

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact: Causes serious eye irritation.

Inhalation: Toxic if inhaled.

Skin contact: Causes skin irritation.

Ingestion: May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

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**SECTION 4: First aid measures**

**Over-exposure signs/symptoms**

- **Eye contact**: Adverse symptoms may include the following: pain or irritation, watering, redness.
- **Inhalation**: No specific data.
- **Skin contact**: Adverse symptoms may include the following: irritation, redness.
- **Ingestion**: Adverse symptoms may include the following: nausea or vomiting.

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

- **Notes to physician**: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- **Specific treatments**: No specific treatment.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

- **Suitable extinguishing media**: Use dry chemical, CO₂, water spray (fog) or foam.
- **Unsuitable extinguishing media**: Do not use water jet.

**5.2 Special hazards arising from the substance or mixture**

- **Hazardous combustion products**: No specific data.

**5.3 Advice for firefighters**

- **Special precautions for fire-fighters**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- **Special protective equipment for fire-fighters**: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

- **For non-emergency personnel**: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- **For emergency responders**: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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SECTION 6: Accidental release measures

6.2 Environmental precautions
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and materials for containment and cleaning up
Methods for cleaning up: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections
See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Protective measures: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities
Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)
Recommendations: Industrial applications, Professional applications.
Industrial sector specific solutions: Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Occupational exposure limits
No exposure limit value known.
SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived effect levels
No DNELs available.

Predicted effect concentrations
No PNECs available.

8.2 Exposure controls

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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**SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

**Appearance**
- **Physical state**: Liquid.
- **Colour**: Not available.
- **Odour**: Hydrocarbon. [Strong]
- **Odour threshold**: Not available.

**Melting point/freezing point**: <-60°C
- **Initial boiling point and boiling range**: 90°C
- **Flash point**: Closed cup: <21°C
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Not available.
- **Upper/lower flammability or explosive limits**: Lower: 1.4%  
  Upper: 7.6%
- **Vapour pressure**: 40 to 106.7 kPa [room temperature]
- **Vapour density**: Not available.
- **Relative density**: 0.69 [Water = 1]
- **Solubility(ies)**: Insoluble in the following materials: cold water and hot water.
- **Partition coefficient: n-octanol/water**: 2.8 to 6
- **Auto-ignition temperature**: 280 to 470°C
- **Decomposition temperature**: Not available.
- **Viscosity**: Kinematic (40°C): 0.004 to 0.009 cm²/s
- **Explosive properties**: Not available.

### 9.2 Other information

No additional information.

**SECTION 10: Stability and reactivity**

#### 10.1 Reactivity
- No specific test data related to reactivity available for this product or its ingredients.

#### 10.2 Chemical stability
- The product is stable.

#### 10.3 Possibility of hazardous reactions
- Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4 Conditions to avoid
- Avoid all possible sources of ignition (spark or flame).  Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

#### 10.5 Incompatible materials
- Reactive or incompatible with the following materials: oxidizing materials

#### 10.6 Hazardous decomposition products
- Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), full-range alkylate</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>&gt;5.04 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;2000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;7000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), full-range alkylate</td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitiser

Conclusion/Summary: Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), full-range alkylate</td>
<td>ASPIRATION HAZARD - Category 1</td>
</tr>
</tbody>
</table>

Information on the likely routes of exposure

Not available.

Potential acute health effects

Inhalation: Toxic if inhaled.
Ingestion: May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.
Skin contact: Causes skin irritation.
Eye contact: Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific data.
Ingestion: Adverse symptoms may include the following: nausea or vomiting
Skin contact: Adverse symptoms may include the following: irritation redness
Eye contact: Adverse symptoms may include the following: pain or irritation watering redness

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not available.
Potential delayed effects: Not available.

Long term exposure

Potential immediate effects: Not available.
Potential delayed effects: Not available.

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SECTION 11: Toxicological information

Potential chronic health effects

<table>
<thead>
<tr>
<th>General</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenicity</td>
<td>May cause cancer. Risk of cancer depends on duration and level of exposure.</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>May cause genetic defects.</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Developmental effects</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Fertility effects</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Other information</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), full-range alkylate</td>
<td>EC50 13 mg/l</td>
<td>Algae</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>NOEC 0.1 mg/l</td>
<td>Algae</td>
<td>72 hours</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

Conclusion/Summary: Not available.

12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), full-range alkylate</td>
<td>2.8 to 6</td>
<td>10 to 2500</td>
<td>high</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

| Soil/water partition coefficient (KOC)     | Not available. |
| Mobility                                   | Not available. |

12.5 Results of PBT and vPvB assessment

PBT: No.
P: Not available. B: No. T: Yes.

vPvB: No.
vP: Not available. vB: No.

12.6 Other adverse effects

: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

Packaging

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
**SECTION 13: Disposal considerations**

**Special precautions**

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

<table>
<thead>
<tr>
<th>Additional information</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>De minimis quantities</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN number</td>
<td>UN1268</td>
<td>UN1268</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.2 UN proper shipping name</th>
<th>PETROLEUM PRODUCTS, N.O.S.</th>
<th>PETROLEUM PRODUCTS, N.O.S.</th>
<th>Petroleum products, n.o.s.</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>![Flame Icon]</td>
<td>![Flame Icon]</td>
<td>![Flame Icon]</td>
<td></td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>14.6 Special precautions for user</td>
<td>Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.</td>
<td>Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.</td>
<td>Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.</td>
</tr>
<tr>
<td>Additional information</td>
<td>Hazard identification number 33</td>
<td>Emergency schedules (EmS) F-E, S-E</td>
<td>Passenger and Cargo Aircraft Quantity limitation: 5 L Packaging instructions: 353</td>
</tr>
<tr>
<td></td>
<td>Limited quantity 1 L</td>
<td>Cargo Aircraft Only Quantity limitation: 60 L Packaging instructions: 364</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Special provisions 640C, 363</td>
<td>Limited Quantities - Passenger Aircraft Quantity limitation: 1 L Packaging instructions: Y341</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tunnel code (D/E)</td>
<td>Remarks Excepted Quantity</td>
<td></td>
</tr>
</tbody>
</table>

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.
SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Restricted to professional users.

Other EU regulations

Europe inventory: This material is listed or exempted.
Black List Chemicals: Not listed
Priority List Chemicals: Not listed
Integrated pollution prevention and control list (IPPC) - Air: Not listed
Integrated pollution prevention and control list (IPPC) - Water: Not listed

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Carcinogenic effects</th>
<th>Mutagenic effects</th>
<th>Developmental effects</th>
<th>Fertility effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), full-range alkylate</td>
<td>Carc. 1B, H350</td>
<td>Muta. 1B, H340</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

15.2 Chemical Safety Assessment: This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 2, H225</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Acute Tox. 3, H331</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Skin Irrit. 2, H315</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Eye Irrit. 2, H319</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Muta. 1B, H340</td>
<td>Regulatory data</td>
</tr>
<tr>
<td>Carc. 1B, H350</td>
<td>Regulatory data</td>
</tr>
<tr>
<td>Asp. Tox. 1, H304</td>
<td>Regulatory data</td>
</tr>
<tr>
<td>Aquatic Chronic 1, H410</td>
<td>On basis of test data</td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements:

H225: Highly flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.
H340: May cause genetic defects.
H350: May cause cancer.

Date of issue/Date of revision: 28/08/2013
**SECTION 16: Other information**

<table>
<thead>
<tr>
<th>Full text of classifications [CLP/GHS]</th>
<th>H410</th>
<th>Very toxic to aquatic life with long lasting effects.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3, H331</td>
<td></td>
<td>ACUTE TOXICITY: INHALATION - Category 3</td>
</tr>
<tr>
<td>Aquatic Chronic 1, H410</td>
<td></td>
<td>AQUATIC TOXICITY (CHRONIC) - Category 1</td>
</tr>
<tr>
<td>Asp. Tox. 1, H304</td>
<td></td>
<td>ASPIRATION HAZARD - Category 1</td>
</tr>
<tr>
<td>Carc. 1B, H350</td>
<td></td>
<td>CARCINOGENICITY - Category 1B</td>
</tr>
<tr>
<td>Eye Irrit. 2, H319</td>
<td></td>
<td>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2</td>
</tr>
<tr>
<td>Flam. Liq. 2, H225</td>
<td></td>
<td>FLAMMABLE LIQUIDS - Category 2</td>
</tr>
<tr>
<td>Muta. 1B, H340</td>
<td></td>
<td>GERM CELL MUTAGENICITY - Category 1B</td>
</tr>
<tr>
<td>Skin Irrit. 2, H315</td>
<td></td>
<td>SKIN CORROSION/IRRITATION - Category 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Full text of abbreviated R phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>R11- Highly flammable.</td>
</tr>
<tr>
<td>R20- Harmful by inhalation.</td>
</tr>
<tr>
<td>R38- Irritating to skin.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Full text of classifications [DSD/DPD]</th>
<th>F - Highly flammable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xn - Harmful</td>
<td></td>
</tr>
<tr>
<td>Xi - Irritant</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date of issue/ Date of revision</th>
<th>28/08/2013</th>
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<tr>
<td>Date of previous issue</td>
<td>07/04/2011</td>
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<td>Version</td>
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