SAFETY DATA SHEET  K NATE 2
According to EC Regulation 1907/2006/EC - revision 2015/830

Print Date 03/02/2020  Creation Date 02/02/2015  Revision No. 3.4  Revision Date 31/01/2020

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier
Product name K NATE 2
Product Code 0768G1 (CLP)

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

1.3. Details of the supplier of the safety data sheet
NCH UK & Ireland, NCH House, Springvale Avenue, Bilston, WV14 0QL Tel (UK): 01902 510200, Tel (Ireland): 042 939 5502
E-mail address technical_uk@nch.com
Website address www.ncheurope.com

1.4. Emergency telephone number
UK - 01902 510200 (available during Office Hours)
In Republic of Ireland (available from 8am to 10pm daily): 01 809 2166

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 (CLP/GHS) and its adaptations
This mixture is not classified according to EU Regulation No 1272/2008
Safety data sheet available on request.

2.2. Label elements
Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)
EU classification for GHS template
Safety data sheet available on request.
For industrial and institutional use only.
Keep out of reach of children.

2.3. Other hazards
No additional hazards identified.
The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

3.2 Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>EC No.</th>
<th>EU - REACH reg number</th>
<th>Weight-%</th>
<th>EU - GHS/CLP Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUBRICATING OILS</td>
<td>74869-22-0</td>
<td>278-012-2</td>
<td>01-2119495601-36</td>
<td>25 - &lt; 50</td>
<td>-</td>
<td>L</td>
</tr>
</tbody>
</table>

For any H statements mentioned in this section, see the full text in section 16.

EU Notes
Note L - The classification as a carcinogen does not apply as the substance contains less than 3% DMSO extract (IP 346)

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures
General advice
Get medical attention immediately if symptoms occur.

Eye Contact
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Skin Contact
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Do not use solvents or thinners. Get medical attention if irritation develops and persists.

Ingestion
Do NOT induce vomiting. Rinse mouth with water. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed
Sensitisation
No information available.

**Eye contact**
May cause irritation as itching and redness.

**Skin contact**
Unlikely to be irritant on brief or occasional exposure.

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**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use: Dry powder. Alcohol-resistant foam. Carbon dioxide (CO2). Water spray.

**Extinguishing media which must not be used for safety reasons**
Water jet.

5.2. **Special hazards arising from the substance or mixture**
When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide.

Material can create slippery conditions.

5.3. **Advice for firefighters**
Firefighters should wear a self-contained breathing apparatus and full protective gear.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. **Personal precautions, protective equipment and emergency procedures**
Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. Use care as spills may be slippery.

6.2. **Environmental precautions**
Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

6.3. **Methods and material for containment and cleaning up**

**Methods for Containment**
Contain spillage, soak up with non-combustable absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). If using a cloth to wipe up a small spillage, properly dispose of the used cloth to avoid a fire risk.

**Methods for Cleaning up**
Pick up and transfer to properly labelled containers. Clean preferably with a detergent, do not use solvents.

6.4. **Reference to other sections**
Refer to sections 7, 8 and 13.

### SECTION 7. HANDLING AND STORAGE

7.1. **Precautions for safe handling**
Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Ensure adequate ventilation.

7.2. **Conditions for safe storage, including any incompatibilities**
Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

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

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. **Control parameters**

**Exposure limits**
Lubricating Oils :- TWA (8hrs): 5mg/m³ / STEL(15mins):10mg/m³.
8.2. Exposure controls

**Engineering Measures**
Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**
Use personal protection equipment as per Directive 89/686/EEC.

**Respiratory Protection**
If excessive mist formation is likely wear suitable respiratory protection. Conforming to EN 143 eg P2 / P3 Particle filters.

**Hand Protection**
Wear suitable protective gloves conforming to EN 374. Type of gloves suggested: Neoprene gloves (0.4 mm). Nitrile rubber (0.4 mm). Solvent-resistant gloves (butyl-rubber). For break through times, refer to glove manufacturers recommendations.

**Eye Protection**
Safety glasses if the method of use presents the likelihood of eye contact. Approved to EN 166.

**General hygiene considerations**
Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practise. Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties
Information below relates to typical values and does not constitute a specification.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Dark green</td>
</tr>
<tr>
<td>Physical State</td>
<td>Grease</td>
</tr>
<tr>
<td>Odour</td>
<td>Petroleum distillates</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>&gt; 250 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 220 °C</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flammability Limits in Air %</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&lt; 0.01 kPa (20°C)</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.05</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>&gt; 300 °C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Viscous</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available.</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No information available.</td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>0</td>
</tr>
<tr>
<td>NLGI</td>
<td>2</td>
</tr>
<tr>
<td>Dropping Point</td>
<td>&gt; 290 °C</td>
</tr>
</tbody>
</table>

#### 9.2. Other information
No other information available

### SECTION 10. STABILITY AND REACTIVITY

#### 10.1. Reactivity
Not considered as highly reactive. See further information below.

#### 10.2. Chemical stability
Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions
The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use.

#### 10.4. Conditions to avoid
No conditions to be specially mentioned.

#### 10.5. Incompatible materials
Strong oxidising agents.

#### 10.6. Hazardous decomposition products
None under normal storage conditions and use. When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

**Product Information**
The product itself has not been tested.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUBRICATING OILS</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>= 2.18 mg/L (Rat) 4 h</td>
</tr>
</tbody>
</table>

**Sensitisation**
No information available.

**Skin contact**
Unlikely to be irritant on brief or occasional exposure.

**Eye contact**
May cause irritation as itching and redness.

**Carcinogenicity**
There are no known carcinogenic substances in this product.
**Mutagenic Effects**
There are no known mutagenic substances in this product.

**Reproductive Effects**
There are no known substances in this product with effects on reproduction.

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**SECTION 12. ECOLOGICAL INFORMATION**

12.1. Toxicity

*Product Information*

The product itself has not been tested.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Fish</th>
<th>Water Flea</th>
<th>Toxicity to Algae</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUBRICATING OILS</td>
<td>LC50 &gt; 5000 mg/L Oncorhynchus mykiss 96 h</td>
<td>1000: 48 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Persistence and degradability are substance specific, no test data is available on the constituents of this mixture to degrade or persist in the environment, either through biodegradation or other processes, such as oxidation or hydrolysis.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

The product is insoluble and sinks in water.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

12.6. Other adverse effects

No data available.

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**SECTION 13. DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods

*Waste from Residues / Unused Products*

Dispose of in accordance with local regulations.

*Contaminated Packaging*

Empty containers should be taken for local recycling, recovery or waste disposal. Empty remaining contents. Recycle according to official regulations.

*EWC waste disposal No*

The following EWC/AVV waste codes may be applicable:

12 01 12* spent waxes and fats.

*Other Information*

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

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**SECTION 14. TRANSPORT INFORMATION**


Not classified for transport as dangerous goods

14.5. Environmental hazards

The mixture is not environmentally hazardous for transport

14.6. Special precautions for user

No special precautions.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Packaged product, not typically transported in IBC’s.

*Additional information*

The above information is based on latest transport regulations i.e. ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

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**SECTION 15. REGULATORY INFORMATION**

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

This mixture was classified in compliance with EC Regulation 1272/2008 (CLP) and its adaptations.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this mixture by the supplier

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**SECTION 16. OTHER INFORMATION**

Prepared By: Austen Pimm

Creation Date: 02/02/2015

Revision Date: 31/01/2020

Revision summary:

CLP update, SDS sections updated 9 16
Abbreviations
REACH: Registration Evaluation Authorisation Restriction of Chemicals
EU: European Union
EC: European community
EEC: European Economic Community
UN: United Nations
CAS: Chemical Abstracts Service
PBT: Persistent Bioaccumulative Toxic
vPvB: very Persistent very Bioaccumulative
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effective concentration, 50 percent
LogPow: LogP octanol/water
VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative order relating to substances hazardous to water - Germany)
WGK: Wassergefahrdungsklasse (Water Hazard Class - Germany).
AVV: Abfallverzeichnis-Verordnung (Waste Code - Germany)
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European agreement governing the international carriage of dangerous goods by road)
IMDG: International Maritime Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
RID: Reglement international concernant le transport des marchandises dangereuses par chemin der fer (Regulations concerning the International carriage of Dangerous goods by rail)
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
ERG: Emergency Response Guidebook
IUCLID / RTECS: International Uniform Chemical Information Database / Registry of Toxic Effects of Chemical Substances
GHS: Globally Harmonised System of classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
VOC: Volatile Organic Chemical
w/w: weight for weight
DMSO: Dimethyl sulphoxide
OECD: Organization for Economic Cooperation and Development
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
Further Information
Component test results displayed in sections 11 and 12 are typically supplied by Chemadvisor and assembled from publicly available literature sources e.g. IUCLID / RTECS
It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations
Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet