SAFETY DATA SHEET

According to EC Regulation 1907/2006/EC - revision 2020/878

Revision No. 4.5

Print Date 04/02/2024 **Creation Date** 02/02/2015 **Revision date** 29/12/2023

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

1.1. Product identifier

Product Name: K NATE HV
Product Code: 11004127M1 (CLP)
UFI: DPC3-S0W9-S004-5DG0

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,
Arrowmere House, 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

Eye irritation: Category 2
H319 - Causes serious eye irritation

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP/GHS)

Signal word Warning
Hazard statements
H319 - Causes serious eye irritation
Precautionary statements
P337 + P313 - If eye irritation persists: Get medical advice/attention
P280 - Wear eye protection/ face protection
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

Chemical name	CAS No	EC No (EU Index Index No)	EU - REACH reg number	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Notes
Lubricating Oils	64742-62-7	265-166-0	01-2119480472-38	25 - < 50	-	L
Benzenesulfonic acid, C10-13- (linear)alkyl derivs., calcium salt	1335202-81-7	932-231-6	01-2119560592-37	1 - < 3	Eye Dam. 1 (H318)	

					Skin Irrit. 2 (H315) Aquatic Chronic 3 (H412)	

This mixture contains substances with a Community workplace exposure limit. 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:. 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-combustible 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.

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
TWA (8hrs): 5mg/m^3 / STEL(15mins):10mg/m^3.

DNEL (Derived No-Effect Level)

Chemical name	EU - REACH (1907/2006 (1907/2006) - DNEL	EU - REACH (1907/2006 (1907/2006) - DNEL	EU - REACH (1907/2006) - DNEL	EU - REACH (1907/2006 (1907/2006) - DNEL
Lubricating Oils	general population	oral	long term exposure - systemic effects	0.74 mg/kg bw/day
	workers	dermal	long term exposure - systemic effects	0.97 mg/kg bw/day
	general population	inhalation	long term exposure - local effects	1.19 mg/m^3
	workers	inhalation	long term exposure - systemic effects	2.73 mg/m^3
	workers	inhalation	long term exposure - local effects	5.58 mg/m^3

PNEC (Predicted No-Effect Concentration)

Chemical name	EU - REACH (1907/2006) - PNEC	EU - REACH (1907/2006) - PNEC
Lubricating Oils	food chain	9.33 mg/kg food

8.2. Exposure controls
Engineering Measures
Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment
Use personal protection equipment as per Regulation (EU) 2016/425.
Respiratory Protection
If excessive mist formation is likely wear suitable respiratory protection. Conforming to EN 143 - 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 manufacturer's 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 practice. Wash hands before 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.

Appearance	Brown
Odour	Slight
Physical state	Grease
pH	Not applicable
Flash Point	> 250 °C
Specific gravity	1.02 g/cm3
Viscosity	Viscous
Solubility	Insoluble in water
Autoignition Temperature	> 300 °C

Boiling Point/Range	> 280 °C
Melting Point/Range	Not applicable
Flammability Limits in Air %	Not applicable
Evaporation Rate	No information available
Vapour pressure	< 0.01 kPa (20°C)
Relative vapour density	No information available
Explosive properties	No information available
Oxidising Properties	No information available
VOC content	0
NLGI	1.5
Dropping Point	> 280 °C

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 hazard classes as defined in Regulation (EC) No 1272/2008
Product Information
The product itself has not been tested.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lubricating Oils	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h

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.
STOT - single exposure
Based on available data, the classification criteria are not met
STOT - repeated exposure
Based on available data, the classification criteria are not met
Aspiration hazard
Based on available data, the classification criteria are not met

11.2 Information on Other Hazards
The product does not contain substances that have been identified as an endocrine disruptor

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity
Product Information
The product itself has not been tested.

Chemical name	Toxicity to Fish	Crustacea	Toxicity to Algae
Lubricating Oils	LC50 > 5000 mg/L Oncorhynchus	1000: 48 h Daphnia magna mg/L EC50	

	mykiss 96 h		

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
Component information below.
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 Endocrine disrupting properties
The product does not contain substances that have been identified as an endocrine disruptor
12.7 Other adverse effects
No data available

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. Prevent product from entering drains. 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

SECTION 14. TRANSPORT INFORMATION

14.1, 14.2, 14.3, 14.4.
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 Maritime transport in bulk according to IMO instruments
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.

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

SECTION 16. OTHER INFORMATION

Text of H statements mentioned in Section 3
H318 - Causes serious eye damage. H315 - Causes skin irritation. H412 - Harmful to aquatic life with long lasting effects.
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]
H319 - Causes serious eye irritation.
Prepared By Austen Pimm
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CLP update. SDS sections updated 2 3 16 8

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 merchandises 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 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