

Certas Energy UK Ltd.

Part Number: EHH16 Version No: 2.2 Safety data sharet according to REACH Regulation (EC) No 1907/2006, as amended by LIK REAC

Safety data sheet according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Chemwatch Hazard Alert Code: 0

Issue Date: 24/03/2023 Print Date: 24/03/2023 S.REACH.GB.EN

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

1.1. Product Identifier

Product name	HyperDrive KX+ Hydraulic HV 46	
Synonyms	Not Available	
Other means of identification	Not Available	

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

Relevant identified uses	Use according to manufacturer's directions.
Uses advised against	No specific uses advised against are identified.

1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	Certas Energy UK Ltd.	
Address	1st Floor, Allday House, Warrington Road, Birchwood, Warrington, WA3 6GR United Kingdom	
Telephone	0800 685 685	
Fax	Not Available	
Website	Not Available	
Email	HSE.Sharedservice@certasenergy.co.uk	

1.4. Emergency telephone number

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Association / Organisation	Certas Energy UK Ltd.
Emergency telephone numbers	0330 123 9940 (24 hours, 7days)
Other emergency telephone numbers	Not Available

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 [1]	Not Applicable	
· · · · · ·		
2.2. Label elements		
Hazard pictogram(s)	Not Applicable	
Signal word	Not Applicable	
Hazard statement(s)		
Not Applicable		
Supplementary Phrases		
EUH210	Safety data sheet available on request.	
Precautionary statement(s) Prevention		
Not Applicable		
Precautionary statement(s) Response		

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable **2.3. Other hazards**

paraffinic distillate, heavy,

paraffinic distillate, heavy,	
hydrotreated (severe) (DMSO	Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)
<3% w/w by IP 346)	

SECTION 3 Composition / information on ingredients

3.1.Substances

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	SCL / M-Factor	Nanoform Particle Characteristics
1.64742-54-7.* 2.265-157-1 3.649-467-00-8 4.Not Available	0-50	paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	Aspiration Hazard Category 1; H304 [1]	Not Available	Not Available
Legend: 1. Classified by Chemwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567; 3. Classification draw from C&L * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties		3. Classification drawn			

SECTION 4 First aid measures

4.1. Description of first aid measures

Eye Contact	If this product comes in contact with eyes: • Wash out immediately with water. • If irritation continues, seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

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

Treat symptomatically.

SECTION 5 Firefighting measures

5.1. Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.Water spray or fog Large fires only.

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

5.3. Advice for firefighters

 Fire Fighting Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. 		

Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit irritating/ toxic fumes. May emit acrid smoke. Mists containing combustible materials may be explosive.
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SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

7.1. Precautions for safe handling Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. Safe handling When handling, DO NOT eat, drink or smoke Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions. Fire and explosion protection See section 5 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Other information Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed. None known

Hazard categories in accordance with Regulation (EC) No 1272/2008 Not Available Qualifying quantity (tonnes) of dangerous substances as Not Available referred to in Article 3(10) for the application of

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	Dermal 0.97 mg/kg bw/day (Systemic, Chronic) Inhalation 2.73 mg/m ³ (Systemic, Chronic) Inhalation 5.58 mg/m ³ (Local, Chronic) Oral 0.74 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.19 mg/m ³ (Local, Chronic) *	9.33 mg/kg food (Oral)

* Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

Not Applicable

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	140 mg/m3	1,500 mg/m3		8,900 mg/m3
Ingredient	Original IDLH		Revised IDLH	
paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	2,500 mg/m3		Not Available	

8.2. Exposure controls

	Engineering controls are used to remove a hazard or place be highly effective in protecting workers and will typically be The basic types of engineering controls are: Process controls which involve changing the way a job act Enclosure and/or isolation of emission source which keeps "adds" and "removes" air in the work environment. Ventilativentilation system must match the particular process and of Employers may need to use multiple types of controls to put General exhaust is adequate under normal operating cond essential to obtain adequate protection. Provide adequate workplace possess varying "escape" velocities which, in tur remove the contaminant.	e independent of worker interactions to provide this ivity or process is done to reduce the risk. a selected hazard "physically" away from the work ion can remove or dilute an air contaminant if design themical or contaminant in use. revent employee overexposure. itions. If risk of overexposure exists, wear SAA app ventilation in warehouse or closed storage areas.	s high level of protection. ker and ventilation that strategically gned properly. The design of a proved respirator. Correct fit is Air contaminants generated in the
	Type of Contaminant:		Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank	0.25-0.5 m/s (50-100 f/min)	
8.2.1. Appropriate engineering controls	aerosols, fumes from pouring operations, intermittent con drift, plating acid fumes, pickling (released at low velocity	g, spray 0.5-1 m/s (100-200 f/min.)	
	direct spray, spray painting in shallow booths, drum filling generation into zone of rapid air motion)	active 1-2.5 m/s (200-500 f/min)	
	grinding, abrasive blasting, tumbling, high speed wheel go very high rapid air motion).	zone of 2.5-10 m/s (500-2000 f/min.)	
	Within each range the appropriate value depends on:		
	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity	
	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion	4: Small hood - local control only	

	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.
8.2.2. Individual protection measures, such as personal protective equipment	
Eye and face protection	 Safety glasses with side shields Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed i a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	 Wear general protective gloves, eg. light weight rubber gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacture to manufacture. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: requency and duration of contact. chemical resistance of glove material. glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.1.0 r national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.1.0 r antional equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves should be replaced. As defined in ASIM F-739-96 in any application, gloves are rated as: Excellent when breakthrough time > 20 min Fair when breakthrough time > 20 min F
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. OTHERWISE: Overalls. Barrier cream. Eyewash unit.

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear & Bright Amber Fluid		
Physical state	Liquid	Relative density (Water = 1)	0.865

Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	-33	Viscosity (cSt)	46.73
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	207	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

10.1.Reactivity	See section 7.2
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.		
Еуе	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).		
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
HyperDrive KX+ Hydraulic HV 46	Not Available	Not Available	
paraffinic distillate, heavy,	ΤΟΧΙΟΙΤΥ	IRRITATION	
hydrotreated (severe) (DMSO <3% w/w by IP 346)	Dermal (rabbit) LD50: >5000 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) $^{\left[1 \right]}$	

	Oral (Rat) LD50: >15000 mg/kg ^[2]	Skin: no adverse	e effect observed (not irritating) ^[1]
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		
paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	The materials included in the Lubricating Base Oils category are related The potential toxicity of a specific distillate base oil is inversely related to • The adverse effects of these materials are associated with undesirable • The levels of the undesirable components are inversely related to the d • Distillate base oils receiving the same degree or extent of processing w • The potential toxicity of residual base oils is independent of the degree • The reproductive and developmental toxicity of the distillate base oils is Unrefined & mildly refined distillate base oils contain the highest levels o molecules and have shown the highest potential cancer-causing and mu are produced from unrefined and mildly refined oils by removing or trans refined base oils, the highly and severely refined distillate base oils have low mammalian toxicity. Testing of residual oils for mutation-causing and belief that these materials lack biologically active components or the con Toxicity testing has consistently shown that lubricating base oils have low s mutagenic and carcinogenic potential correlates with its 3-7 ring polycy extractables (e.g. IP346 assay), both characteristics that are directly rela For highly and severely refined distillate base oils: In animal studies, the acute, oral, semilethal dose is >5g/kg body weight semilethal concentration for inhalation is 2.18 to >4 mg/L. The materials Is kin and eye irritation. Testing for sensitisation has been negative. The e testes and lung have been observed, as well as the formation of granulo reproductive toxicity or significant increases in birth defects. They are als aberrations. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing the start of carcinogenicity may be inadequate or limited in animal testing	the severity or extra components, and egree of processing ill have similar toxic of processing the or inversely related tt f undesirable comp tation-causing activ forming undesirable a smaller range of cancer-causing po ponents are larged v acute toxicities. No clic aromatic comp ted to the degree/or and the semilethal have varied from "no ffects of repeated em mas. In animals, th	ent of processing the oil has undergone, since: g; cities; iil receives. to the degree of processing. to nonents, have the largest variation of hydrocarbon vities. Highly and severely refined distillate base oils e components. In comparison to unrefined and mildly hydrocarbon molecules and have demonstrated very tential has shown negative results, supporting the y non-bioavailable due to their molecular size. lumerous tests have shown that a lubricating base oil bound (PAC) content, and the level of DMSO conditions of processing. dose by skin contact is >2g/kg body weight. The on-irritating" to "moderately irritating" when tested for exposure vary by species; in animals, effects to the ese substances have not been found to cause
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	× STOT-S	Single Exposure	×
Respiratory or Skin sensitisation	× STOT - Rep	eated Exposure	×

Legend:

Aspiration Hazard

X - Data either not available or does not fill the criteria for classification Data available to make classification

×

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

Mutagenicity

No evidence of endocrine disrupting properties were found in the current literature.

×

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

HyperDrive KX+ Hydraulic HV 46	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
paraffinic distillate, heavy,	ErC50	72h	Algae or other aquatic plants	>1000mg/l	1
hydrotreated (severe) (DMSO	NOEC(ECx)	504h	Crustacea	>1mg/l	1
<3% w/w by IP 346)	EC50	96h	Algae or other aquatic plants	>1000mg/l	1
	EC50	48h	Crustacea	>1000mg/l	1
Legend:		1. IUCLID Toxicity Data 2. Europe ECHA Regis	0		,
		e - Aquatic Toxicity Data 5. ECETOC Aquatic H ion Data 8. Vendor Data	lazard Assessment Data 6. NITE (Japan) - Bio	concentration Data 7. M	IETI (Japa

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation	
	No Data available for all ingredients	

12.4. Mobility in soil

Ingredient	Mobility	
	No Data available for all ingredients	

12.5. Results of PBT and vPvB assessment

	Р	В	т
Relevant available data	Not Available	Not Available	Not Available
PBT	X	×	×
vPvB	×	×	×
PBT Criteria fulfilled? No			No
vPvB			No

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

13.1. Waste treatment methods	8
Product / Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate:
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 Transport information

Labels Required		
	Marine Pollutant	NO
	HAZCHEM	Not Applicable

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number or ID number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard	Class Not Applicab	ble	
class(es)	Subsidiary risk Not Applicab	ble	
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
	Hazard identification (Kemler)	Not Applicable	
	Classification code	Not Applicable	
14.6. Special precautions for user	Hazard Label	Not Applicable	
	Special provisions	Not Applicable	
	Limited quantity	Not Applicable	
	Tunnel Restriction Code	Not Applicable	

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
	ICAO/IATA Class	Not Applicable		
14.3. Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
01400(00)	ERG Code Not Applicable			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Special provisions		Not Applicable	
	Cargo Only Packing Instructions		Not Applicable	
	Cargo Only Maximum Qty / Pack		Not Applicable	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable	
	Passenger and Cargo Maximum Qty / Pack		Not Applicable	
	Passenger and Cargo	Limited Quantity Packing Instructions	Not Applicable	
	Passenger and Cargo	Limited Maximum Qty / Pack	Not Applicable	

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	IMDG Class Not Applicable IMDG Subrisk Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS NumberNot ApplicableSpecial provisionsNot ApplicableLimited QuantitiesNot Applicable		

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	Not Applicable Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
	Classification code	Not Applicable	
44.0 Canadial and and the second	Special provisions	Not Applicable	
14.6. Special precautions for user	Limited quantity	Not Applicable	
	Equipment required	Not Applicable	
	Fire cones number	Not Applicable	

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	Not Available

SECTION 15 Regulatory information

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

paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w="" by="" ip="" 34	6)="">is found on the following regulatory lists
Chemical Footprint Project - Chemicals of High Concern List	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Great Britain GB mandatory classification and labelling list (GB MCL)	Monographs - Group 1: Carcinogenic to humans
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic
Monographs	UK REACH grandfathered registrations notified substances list

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

ECHA SUMMARY

Ingredient	CAS number Index No		ECHA Dossier		
paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346)	64742-54-7.*	649-467-00-8		Not Available	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Word Code(s)	Hazard Statement Code(s)	
1	Carc. 1B		GHS08; Dgr	H350	
2	Asp. Tox. 1; Carc. 1A; Repr. 2; STOT RE 1; Eye Irrit. 2; STOT SE 3; Acute Tox. 4; STOT SE 3; Muta. 2; Skin Irrit. 2; Aquatic Chronic 3		GHS08; Dgr	H304; H350; H361; H372; H319; H335; H336; H332; H340; H371; H315; H412	

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (paraffinic distillate, heavy, hydrotreated (severe) (DMSO <3% w/w by IP 346))	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	Yes	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	24/03/2023
Initial Date	18/10/2022

Full text Risk and Hazard codes

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.

H361	Suspected of damaging fertility or the unborn child.
H371	May cause damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

SDS Version Summary

Version	Date of Update	Sections Updated
1.2	24/03/2023	Physical and chemical properties - Appearance, Hazards identification - Classification, Composition / information on ingredients - Ingredients

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered. For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard **OSF: Odour Safety Factor** NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
, EUH210	Calculation method

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