SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Revision date 20-Mar-2025 **Revision Number** 1

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

1.1. Product identifier

Product Code(s) 125081

Safety data sheet number 125081

Product Name WURTH HSW 100

Pure substance/mixture Mixture

Contains: PENTANE, HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS, PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY

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

Recommended use Lubricant
Professional use

1.3. Details of the supplier of the safety data sheet

Supplier
Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Aerosols	Category 1 - (H222, H229)
Specific target organ toxicity — single exposure	Category 3 - (H336)
Category 3 Narcotic effects	
Aspiration hazard	Category 1 - (H304)

Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains: PENTANE, HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS, PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY

Signal word
Danger

Hazard statements
H304 - May be fatal if swallowed and enters airways
H336 - May cause drowsiness or dizziness
H411 - Toxic to aquatic life with long lasting effects
H222 - Extremely flammable aerosol
H229 - Pressurised container: May burst if heated
EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary statements
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P211 - Do not spray on an open flame or other ignition source
P251 - Do not pierce or burn, even after use
P273 - Avoid release to the environment
P391 - Collect spillage
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
BUTANE 106-97-8	>= 30 - < 50%	203-448-7	-	Flam. Gas 1 (H220) Press. Gas (H280)	-	-	-
PENTANE 109-66-0	>= 10 - < 20%	203-692-4 (601-006-00-1)	-	Flam. Liq. 2 (H225) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Chronic 2	-	-	-

				(H411) (EUH066)			
HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS -	>= 10 - < 20%	920-750-0	-	Flam. Liq. 2 (H225) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) (EUH066)	-	-	-
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY 64742-70-7	>= 1 - < 10%	265-174-4	-	Asp. Tox. 1 (H304)	-	-	-
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] 13463-67-7	>= 0.1 - < 1%	236-675-5 (022-006-00-2)	-	Carc. 2 (H351i)	-	-	-

Full text of H- and EUH-phrases: see section 16

Additional information
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics, EC No. 920-750-0: benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P). Paraffin oils (petroleum), catalytic dewaxed heavy, CAS 64742-70-7: DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L).
This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

Skin contact IF ON SKIN: Wash with plenty of soap and water. Get medical attention if symptoms occur.

Ingestion Do NOT induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required.

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

Symptoms May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical, CO2, alcohol-resistant foam or water spray.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Flash back possible over considerable distance. Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health. Containers can burst violently when heated, due to excess pressure build-up.

Hazardous combustion products Carbon oxides.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Cool containers with flooding quantities of water until well after fire is out. Collect contaminated fire extinguishing water separately. Do not allow it to enter drains or surface water. Evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Remove all sources of ignition. Ensure adequate ventilation. Avoid contact with eyes, skin and clothing. Use personal protection recommended in Section 8.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning up

Methods for containment Dike far ahead of larger spills for later disposal. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Use non-sparking tools.

Methods for cleaning up Suppress (knock down) gases/vapours/mists with a water spray jet. Retain contaminated washing water and dispose of it.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations. Observe good chemical hygiene practices.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Avoid contact with eyes, skin and clothing. Do not swallow. Avoid breathing spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Do not spray on an open flame or other ignition source. Avoid spilling. Avoid release to the environment.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using the product. Wash hands before breaks and after work. Remove contaminated clothing and protective equipment before entering eating areas. Take off all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Store in a cool, well ventilated area. Protect from sunlight. Do not pierce or burn, even after use. Do not store with the following product types:. Flammable solid. Organic peroxide. Oxidising agents. Pyrophoric liquids. Pyrophoric solids. Self-heating substances and mixtures. Substances and mixtures, which in contact with water, emit flammable gases. Explosives. Gases. Keep at a temperature not exceeding 40 °C.

7.3. Specific end use(s)

Specific use(s)
See section 1 for more information.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	United Kingdom
BUTANE 106-97-8	TWA: 1450 mg/m³ TWA: 600 ppm STEL: 1810 mg/m³ STEL: 750 ppm
PENTANE 109-66-0	TWA: 600 ppm TWA: 1800 mg/m³ STEL: 1800 ppm STEL: 5400 mg/m³
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] 13463-67-7	TWA: 10 mg/m³ TWA: 4 mg/m³

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
PENTANE 109-66-0		432 mg/kg bw/day [4] [6]	3000 mg/m³ [4] [6]
HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS -		773 mg/kg bw/day [4] [6]	2035 mg/m³ [4] [6]
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY 64742-70-7		0.97 mg/kg bw/day [4] [6]	2.73 mg/m³ [4] [6] 5.58 mg/m³ [5] [6]
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] 13463-67-7			0.170 mg/m³ [5] [6]

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
PENTANE 109-66-0	214 mg/kg bw/day [4] [6]		643 mg/m³ [4] [6]
HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS -	699 mg/kg bw/day [4] [6]	699 mg/kg bw/day [4] [6]	608 mg/m³ [4] [6]
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY 64742-70-7	0.74 mg/kg bw/day [4] [6]		1.19 mg/m³ [5] [6]
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] 13463-67-7			0.028 mg/m³ [5] [6]

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
PENTANE 109-66-0	230 µg/L	880 µg/L	230 µg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
PENTANE 109-66-0	1.2 mg/kg sediment dw	1.2 mg/kg sediment dw	3600 µg/L	0.55 mg/kg soil dw	
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY 64742-70-7					9.33 mg/kg food

8.2. Exposure controls

Engineering controls Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

Hand protection Chemical resistant gloves required for prolonged or repeated contact. Gloves must conform to standard EN 374. Examples of acceptable glove barrier materials include:. Nitrile rubber.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Long term (repeated)	Nitrile rubber	>= 0.5 mm	> 480 minutes

Skin and body protection Wear appropriate clothing to prevent reasonably probable skin contact.

Respiratory protection In case of inadequate ventilation wear respiratory protection. Equipment should conform to BS EN 137.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using the product. Wash hands before breaks and after work. Remove contaminated clothing and protective equipment before entering eating areas. Take off all contaminated clothing and wash it before reuse.

Environmental exposure controls Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Aerosol
Appearance Aerosol containing a liquefied gas
Colour white
Odour Characteristic.
Odour threshold No information available

Property	Values	Remarks • Method
Melting point / freezing point		No information available.
Initial boiling point and boiling range		No information available.
Flammability		Extremely flammable aerosol.
Flammability Limit in Air		No information available.
Upper flammability or explosive limits	10.9% (V)	

Lower flammability or explosive limits	0.7% (V)	
Flash point		No information available.
Autoignition temperature	> 200 °C	No information available.
Decomposition temperature		No information available.
pH		Not applicable. Substance/mixture is non-polar/aprotic.
pH (as aqueous solution)		Not applicable.
Kinematic viscosity		Not applicable.
Dynamic viscosity		No information available.
Water solubility	Immiscible	No information available.
Solubility(ies)		No information available.
Partition coefficient		Not applicable.
Vapour pressure	2100 hPa	@ 20 °C.
Relative density		No information available.
Bulk density		No information available
Liquid Density	0.68 g/cm3	@ 20 °C
Relative vapour density		No information available.
Particle characteristics		Not applicable.
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	No information available	
Oxidising properties	No information available	

9.2. Other information

VOC content 511.4 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No reactive hazards known/expected.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Extremely flammable aerosol. Vapours may form explosive mixtures with air. Heating causes rise in pressure with risk of bursting. Reacts with strong oxidising agents.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation May cause drowsiness or dizziness.

Eye contact May cause irritation.

Skin contact Repeated exposure may cause skin dryness or cracking.

Ingestion May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
BUTANE	-	-	658 mg/l (Rat) 4h
PENTANE	> 2000 mg/kg (Rat)	-	> 20 mg/l (Rat) (4h)
HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS	> 5000 mg/kg (Rat)	> 2800 mg/kg (Rat)	> 23.3 mg/l (Rat) 4h
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 5 mg/l (Rat) 4h
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm]	> 5000 mg/kg (Rat)	-	> 6.82 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data the classification criteria are not met. Repeated exposure may cause skin dryness or cracking.

PENTANE (109-66-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit				non-irritant Repeated exposure may cause skin dryness or cracking

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS (-)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD 404	Rabbit	Dermal			non-irritant

					Repeated exposure may cause skin dryness or cracking

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (64742-70-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal			non-irritant Based on data from similar materials

TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] (13463-67-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit				non-irritant

Serious eye damage/eye irritation Based on available data the classification criteria are not met.

PENTANE (109-66-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD 405	Rabbit	eye			non-irritant

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS (-)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	eye			non-irritant

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (64742-70-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD 405	Rabbit	eye			non-irritant Based on data from similar materials

TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] (13463-67-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	eye			non-irritant

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

PENTANE (109-66-0)

Method	Species	Exposure route	Results
Guinea pig maximisation test (GPMT)	Guinea pig	Dermal	Not a skin sensitiser

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS (-)

Method	Species	Exposure route	Results
Guinea pig maximisation test (GPMT)	Guinea pig	Dermal	Not a skin sensitiser

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (64742-70-7)

Method	Species	Exposure route	Results
Buehler Test OECD 406	Guinea pig	Dermal	Not a skin sensitiser Based on data from similar materials

TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] (13463-67-7)

Method	Species	Exposure route	Results
	Human evidence	Dermal	Not a skin sensitiser
OECD 429 LLNA	Mouse	Dermal	Not a skin sensitiser

Germ cell mutagenicity Based on available data the classification criteria are not met.

Component Information
BUTANE (106-97-8)

Method	Species	Results
Ames Test	Bacteria	Negative
OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test	Rat	Negative Based on data from similar materials

PENTANE (109-66-0)

Method	Species	Results
Chromosome aberration test	in vitro	Negative
Ames Test	Bacteria	Negative
OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test	Rat	Negative

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS (-)

Method	Species	Results
Ames Test	Bacteria	Negative
OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test	Mouse	Negative

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (64742-70-7)

Method	Species	Results
Ames Test	Bacteria	Negative Based on data from similar materials
OECD Test No. 476: In Vitro Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes	in vitro	Negative Based on data from similar materials
Chromosome aberration test	in vitro	Negative Based on data from similar materials
OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test	Mouse	Negative Based on data from similar materials

TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] (13463-67-7)

Method	Species	Results
Ames Test	Bacteria in vitro	Negative
In vivo Micronucleus Test	Mouse	Negative

Carcinogenicity Based on available data the classification criteria are not met.

Component Information
HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS (-)

Method	Species	Results
		Not Carcinogenic

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (64742-70-7)

Method	Species	Results
	Mouse	Not Carcinogenic Based on data from similar materials

TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] (13463-67-7)

Method	Species	Results
OECD 453	Rat	Suspected of causing cancer if inhaled The mechanism or mode of action may not be relevant in humans

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	United Kingdom
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm]	Carc. 2

Reproductive toxicity Based on available data the classification criteria are not met.

STOT - single exposure May cause drowsiness or dizziness.

PENTANE (109-66-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause drowsiness or dizziness

TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] (13463-67-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Evaluation of available data suggests that this material is not an STOT-SE toxicant

STOT - repeated exposure Based on available data the classification criteria are not met.

Component Information

TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] (13463-67-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat	Inhalation	0.01 mg/L	2 Years	Based on available data the classification criteria are not met.
	human data	Inhalation			Not classified

Aspiration hazard May be fatal if swallowed and enters airways. Based on product data or assessment.

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

PENTANE (109-66-0)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Scenedesmus capricornutum	ErC50	10.7 mg/L	72 hours	
	Oncorhynchus mykiss (rainbow trout)	LC50	4.26 mg/L	96 hours	
	Daphnia magna	EC50	2.7 mg/L	48 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Scenedesmus capricornutum	NOEC	2.04 mg/L	72 hours	

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS (-)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Oncorhynchus mykiss (rainbow trout)	LL50	3 - 10 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EL50	4.6 - 10 mg/L	48 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	EL50	10 - 30 mg/L	72 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	NOELR	10 mg/L	72 hours	
OECD Test No. 211: Daphnia magna Reproduction Test	Daphnia magna	NOEC	0.17 mg/L	21 days	

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (64742-70-7)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Pimephales promelas	LL50	> 100 mg/L	96 hours	Based on data from similar materials
Acute toxicity	Daphnia magna	EL50	> 100 mg/L	48 hours	Based on data from similar materials
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	NOEL	>= 100 mg/L	72 hours	Based on data from similar materials
Chronic aquatic toxicity	Daphnia magna	NOELR	> 1 mg/L	21 days	Based on data from similar materials

TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] (13463-67-7)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)	Toxicity to microorganisms	EC50	> 1000 mg/L	3 hours	
	Skeletonema costatum	EC50	>10000 mg/L	72 hours	
OECD Test No. 203: Fish, Acute Toxicity Test	Oncorhynchus mykiss (rainbow	LC50	>100 mg/L	96 hours	

	trout)				
	Daphnia magna	EC50	>100 mg/L	48 hours	
	Algae	NOEC	5600 mg/L	72 hours	

12.2. Persistence and degradability

Persistence and degradability The product contains substances which are biodegradable.

BUTANE (106-97-8)

Method	Exposure time	Value	Results
	385.5 hours	Biodegradation 100%	Readily biodegradable Based on data from similar materials

PENTANE (109-66-0)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	Biodegradation 87%	Readily biodegradable

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS (-)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	Biodegradation 81%	Readily biodegradable

PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY (64742-70-7)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)			Not readily biodegradable

TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] (13463-67-7)

Method	Exposure time	Value	Results
			The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
BUTANE	2.31
PENTANE	3.45
HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS	> 4

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
BUTANE	The substance is not PBT / vPvB
PENTANE	The substance is not PBT / vPvB
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY	The substance is not PBT / vPvB
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm]	The substance is not PBT / vPvB PBT assessment does not apply

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Do not puncture or incinerate cans.

Contaminated packaging Ensure aerosol cans are sprayed completely empty (including propellant). Empty containers retain product residue and can be hazardous. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

IATA

14.1 UN number or ID number UN1950
14.2 UN proper shipping name AEROSOLS
14.3 Transport hazard class(es) 2.1
14.4 Packing group Not regulated
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions A145, A167, A802
ERG Code 10L

IMDG

14.1 UN number or ID number UN1950
UN proper shipping name AEROSOLS
14.3 Transport hazard class(es) 2.1
Subsidiary hazard class (Pentane, Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics)
14.4 Packing group Not regulated
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions 63,190, 277, 327, 344, 381, 959
EmS-No F-D, S-U
14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number or ID number UN1950
14.2 UN proper shipping name AEROSOLS
14.3 Transport hazard class(es) 2.1
14.4 Packing group Not regulated
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions 190, 327, 344, 625
Classification code 5F

ADR

14.1 UN number or ID number	UN1950
14.2 UN proper shipping name	AEROSOLS
14.3 Transport hazard class(es)	2.1
14.4 Packing group	Not regulated
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	327, 625, 344, 190
Classification code	5F
Tunnel restriction code	(D)

SECTION 15: Regulatory information

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

National regulations

Authorisations and/or restrictions on use:
This product contains one or more substances subject to restriction (UK REACH - Annex XVII).
Product restricted per REACH Annex XVII: 3

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
BUTANE - 106-97-8	Use restricted. See item 28. Use restricted. See item 29.	-
PARAFFIN OILS (PETROLEUM), CATALYTIC DEWAXED HEAVY - 64742-70-7	Use restricted. See item 28.	-
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] - 13463-67-7	75	-

Persistent Organic Pollutants
Not applicable

Export Notification requirements
Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)
P3a - FLAMMABLE AEROSOLS
E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Named dangerous substances per COMAH Regulations 2015 (as amended)
Not applicable

The Ozone-Depleting Substances Regulations 2015
Not applicable

The Biocidal Products Regulations 2001 (as amended)
Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)
Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)
Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECI	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No Chemical Safety Assessment has been carried out for this substance/mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
EUH066 - Repeated exposure may cause skin dryness or cracking
H220 - Extremely flammable gas
H225 - Highly flammable liquid and vapour
H280 - Contains gas under pressure; may explode if heated
H304 - May be fatal if swallowed and enters airways
H336 - May cause drowsiness or dizziness
H351i - Suspected of causing cancer if inhaled
H411 - Toxic to aquatic life with long lasting effects

Legend
SVHC: Substances of Very High Concern for Authorisation:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Revision Note Not applicable

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method

Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Based on product data or assessment
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Prepared By J Forth

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This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended) Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Disclaimer
The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet