

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 22/03/2016 Revision date: 19/05/2022 Supersedes version of: 16/03/2021 Version: 3.0

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

1.1. Product identifier

Product form : Mixture

Product name : Hranifix DCM free
UFI : QE33-60N6-9005-P9XK

Vaporizer : Container fitted with a sealed spray attachment

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use Function or use category : Adhesives, binding agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

Hranipex Czech Republic k.s. J. Rýznerové 97, Komorovice

CZ– 396 01 Humpolec Czech Republic

T 565 501 210 help@ecomole.com - www.hranipex.cz Hranipex Ltd.

Supplier

Unit 2 Radial Park, Birmingham Business Park

Birmingham, B37 7YN United Kingdom

T 0121 767 9180 - F 0121 782 6250

hranipex@hranipex.co.uk - www.hranipex.co.uk

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX Llandough	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB Newcastle	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable gases, Category 1A H220

Gases under pressure : Liquefied gas H280



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Serious eye damage/eye irritation, Category 2

H319

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

Adverse physicochemical, human health and environmental effects

Contains gas under pressure; may explode if heated. Extremely flammable gas.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS02

GHS07

Signal word (CLP) : Danger

Hazard statements (CLP) : H220 - Extremely flammable gas.

H280 - Contains gas under pressure; may explode if heated.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P403 - Store in a well-ventilated place.

EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Other hazards which do not result in classification

Contact with gas or liquefied gas could cause a combination of burns, severe injury and frostbite. The vapours are denser than air and may travel along the ground. Distance ignition possible.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propyl acetate	CAS-No.: 109-60-4 EC-No.: 203-686-1 EC Index-No.: 607-024-00-6 REACH-no: 01-2119484620-39	5 – 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 Note C



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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methyl acetate	CAS-No.: 79-20-9 EC-No.: 201-185-2 EC Index-No.: 607-021-00-X REACH-no: 01-2119459211-47	5 – 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
Propane	CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5 REACH-no: 01-2119486944-21	5 – 10	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
Isobutane	CAS-No.: 75-28-5 EC-No.: 200-857-2 EC Index-No.: 601-004-00-0 REACH-no: 01-2119474691-27	5 – 10	Flam. Gas 1A, H220 Press. Gas (Liq.), H280

Comments

: Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In case of doubt or persistent symptoms, consult always a physician. If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after skin contact : Take off contaminated clothing. Wash skin with plenty of water. If skin irritation or rash

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. Do NOT induce vomiting. Place the affected person in the

recovery position. Get immediate medical advice/attention.

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

No additional information available

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

Treat symptomatically. Do not administer medicines from the adrenalin-ephedrine group.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Dry chemical. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable gas.

Explosion hazard : Vapours are heavier than air and may spread along floors. Under fire conditions closed

containers may rupture or explode. Special attention should be given to low areas/pits

where flammable vapours can accumulate.

Reactivity in case of fire : Pressurised container: May burst if heated.

Hazardous decomposition products in case of fire : Fire could produce a combination of irritating and toxic gases. Carbon oxides (CO and

CO2). Hydrogen chloride. Phosgene. Chlorine.



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5.3. Advice for firefighters

Firefighting instructions : Eliminate all ignition sources if safe to do so. Cool containers / tanks with spray water if

possible. Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Other information : Dispose of rinse water in accordance with local and national regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear personal protective equipment. Where excessive vapour, mist, or dust may result, use

approved respiratory protection equipment. Eliminate every possible source of ignition.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Ventilate spillage area. Do not breathe vapour/aerosol.

Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing

dust/fume/gas/mist/vapours/spray.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Collect all waste in suitable and labelled containers and dispose according to local

legislation.

Other information : Provide adequate ventilation. Remove all sources of ignition. Wear suitable protective

clothing.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not

breathe vapours. Wear personal protective equipment. Do not spray on an open flame or other ignition source. Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking. Prevent the build-up of electrostatic charge.

Hygiene measures : Take off contaminated clothing and wash it before reuse. Always wash hands after handling the product. Do not eat, drink or smoke when using this product. Handle in accordance with

good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store tightly closed in a dry, cool and well-ventilated place. Store away from direct sunlight

or other heat sources. Store locked up.

Incompatible materials : Strong acids, strong bases and oxidation agents.

Information on mixed storage : Storage class 2A

7.3. Specific end use(s)

No additional information available



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

propyl acetate (109-60-4)		
United Kingdom - Occupational Exposure Limits		
Local name	n-Propyl acetate	
WEL TWA (OEL TWA) [1]	849 mg/m³	
WEL TWA (OEL TWA) [2]	200 ppm	
WEL STEL (OEL STEL)	1060 mg/m³	
WEL STEL (OEL STEL) [ppm]	250 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
methyl acetate (79-20-9)		
methyl acetate (79-20-9) United Kingdom - Occupational Exposure Limits		
	Methyl acetate	
United Kingdom - Occupational Exposure Limits	Methyl acetate 616 mg/m³	
United Kingdom - Occupational Exposure Limits Local name		
United Kingdom - Occupational Exposure Limits Local name WEL TWA (OEL TWA) [1]	616 mg/m³	
United Kingdom - Occupational Exposure Limits Local name WEL TWA (OEL TWA) [1] WEL TWA (OEL TWA) [2]	616 mg/m³ 200 ppm	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

propyl acetate (109-60-4)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	840 mg/m³	
Long-term - local effects, inhalation	420 mg/m³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	298 mg/m³	
Acute - local effects, inhalation	420 mg/m³	
Long-term - systemic effects, inhalation	149 mg/m³	
Long-term - local effects, inhalation	210 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0.06 mg/l	
PNEC aqua (marine water)	0.006 mg/l	
PNEC aqua (intermittent, freshwater)	0.6 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0.16 mg/kg dwt	



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propyl acetate (109-60-4)			
PNEC sediment (marine water)	0.016 mg/kg dwt		
PNEC (Soil)	'		
PNEC soil	0.0215 mg/kg dwt		
PNEC (STP)			
PNEC sewage treatment plant	1 mg/l		
methyl acetate (79-20-9)			
DNEL/DMEL (Workers)			
Acute - systemic effects, inhalation	3777 mg/m³		
Long-term - systemic effects, dermal	43 mg/kg bodywei	ght/day	
Long-term - systemic effects, inhalation	300 mg/m³		
Long-term - local effects, inhalation	620 mg/m³		
DNEL/DMEL (General population)	'		
Acute - systemic effects, dermal	203 mg/kg bodywe	eight	
Acute - systemic effects, inhalation	3777 mg/m³		
Acute - systemic effects, oral	203 mg/kg bodywe	eight	
Long-term - systemic effects,oral	21.5 mg/kg bodyw	eight/day	
Long-term - systemic effects, inhalation	64 mg/m³		
Long-term - systemic effects, dermal	21.5 mg/kg bodyw	eight/day	
Long-term - local effects, inhalation	133 mg/m³		
PNEC (Water)	·		
PNEC aqua (freshwater)	0.12 mg/l		
PNEC aqua (marine water)	0.012 mg/l		
PNEC aqua (intermittent, freshwater)	1.2 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	0.128 mg/kg dwt		
PNEC sediment (marine water)	0.0128 mg/kg dwt		
PNEC (Soil)			
PNEC soil	0.0416 mg/kg dwt		

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide adequate ventilation. No flames, no sparks. Eliminate all sources of ignition. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. Wear recommended personal protective equipment.



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Personal protective equipment symbol(s):









8.2.2.1. Eye and face protection

Eye protection:

Protective goggles (EN 166)

8.2.2.2. Skin protection

Skin and body protection:

Long sleeved protective clothing. EN 13034

Hand protection:

Follow the glove manufacturer's specific recommendations when selecting the appropriate thickness, material, and permeability. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemical resistant gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥0.4 mm	х	EN 374
Chemical resistant gloves	Butyl rubber	6 (> 480 minutes)	≥0.7 mm	х	EN 374

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask. Recommended filter type. AX

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Boiling point

Do not eat, drink or smoke in areas where product is used. Wash hands and other exposed areas with soap and water before leaving work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Gas

Colour : Not available

Appearance : Clear.

Odour : Solvent odour.

Odour threshold : Not available

Melting point : Not applicable

Freezing point : -160 °C

Flammability : Extremely flammable gas.

: 50 °C

Explosion limits 1.4 - 17 vol % Not available Lower explosion limit Upper explosion limit Not available Flash point 18 °C (closed cup) Auto-ignition temperature Not available Decomposition temperature : Not available Not applicable Viscosity, kinematic Not applicable Solubility : Insoluble.



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Partition coefficient n-octanol/water (Log Kow)

Vapour pressure

Vapour pressure at 50 °C

Vapour pressure at 50 °C

Density

Relative density

Relative vapour density at 20 °C

Particle characteristics

Not available

0.9 g/ml @ 25 °C

Not applicable

> 2 (Air=1)

Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosion limits : 1.4 – 17 vol %

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : 15.5

Gas group : Press. Gas (Liq.)

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable gas. Pressurised container: May burst if heated.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

No hazardous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids, strong bases and strong oxidants.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified. (Based on available data, the classification criteria are not met)

propyl acetate (109-60-4)		
LD50 oral rat	≈ 8700 mg/kg	
LD50 dermal rabbit	> 17800 mg/kg	
LC50 Inhalation - Rat	≈ 32 mg/l	
methyl acetate (79-20-9)		
LD50 oral rat	6482 mg/kg	
LD50 dermal rat	> 2000 mg/kg bodyweight	
LC50 Inhalation - Rat	49.2 mg/l	



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Propane (74-98-6)	
LC50 Inhalation - Rat [ppm]	2000 ppm
Skin corrosion/irritation :	Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation :	Causes serious eye irritation.
Respiratory or skin sensitisation :	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity :	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity :	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity :	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure :	Not classified (Based on available data, the classification criteria are not met)
propyl acetate (109-60-4)	
STOT-single exposure	May cause drowsiness or dizziness.
methyl acetate (79-20-9)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure :	Not classified (Based on available data, the classification criteria are not met)
propyl acetate (109-60-4)	
LOAEC (inhalation, rat, vapour, 90 days)	21409 mg/l
Aspiration hazard :	Not classified (Based on available data, the classification criteria are not met)
Hranifix DCM free	
Vaporizer	Container fitted with a sealed spray attachment

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

: Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term

: Not classified (Based on available data, the classification criteria are not met)

(chronic)		
propyl acetate (109-60-4)		
LC50 - Fish [1]	60 mg/l Pimephales promelas	
EC50 - Crustacea [1]	91.5 mg/l Daphnia magna	
EC50 72h - Algae [1]	672 mg/l Pseudokirchneriella subcapitata	
methyl acetate (79-20-9)		
LC50 - Fish [1]	250 – 350 mg/l Danio rerio	
EC50 - Crustacea [1]	1.027 g/l Daphnia magna	
EC50 72h - Algae [1]	> 120 mg/l Desmodesmus subspicatus	



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12.2. Persistence and degradability

Hranifix DCM free		
Persistence and degradability	Not established.	
Propane (74-98-6)		
Persistence and degradability	Readily biodegradable.	
Isobutane (75-28-5)		
Persistence and degradability Readily biodegradable.		

12.3. Bioaccumulative potential

Hranifix DCM free		
Bioaccumulative potential	Not established.	
propyl acetate (109-60-4)		
Partition coefficient n-octanol/water (Log Pow)	1.4 @ 25 °C	
methyl acetate (79-20-9)		
Partition coefficient n-octanol/water (Log Pow)	0.18 @ 20 °C	
Propane (74-98-6)		
Partition coefficient n-octanol/water (Log Pow)	2.36	
Bioaccumulative potential	Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.	
Isobutane (75-28-5)		
Partition coefficient n-octanol/water (Log Pow)	2.76	
Bioaccumulative potential	Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.	

12.4. Mobility in soil

Propane (74-98-6)		
Ecology - soil Unlikely		
Isobutane (75-28-5)		
Ecology - soil	Unlikely	

12.5. Results of PBT and vPvB assessment

Hranifix DCM free

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %



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12.7. Other adverse effects

Additional information : Do not discharge into drains or the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) Waste treatment methods Ecology - waste materials

European List of Waste (LoW) code

HP Code

- : Disposal must be done according to official regulations.
- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Avoid release to the environment.
- : 14 06 03* other solvents and solvent mixtures
 - 15 01 04 metallic packaging
- : HP3 "Flammable:"
 - flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
 - flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
 - flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
 - flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
 - water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
 - other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
 - HP4 "Irritant skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	14.1. UN number or ID number			
UN 3501	UN 3501	UN 3501	UN 3501	UN 3501
14.2. UN proper shippin	g name			
CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.	Chemical under pressure, flammable, n.o.s.	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.
Transport document descr	iption (ADR)			
UN 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Propane; Isobutane), 2.1, (B/D)	UN 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Propane ; Isobutane), 2.1	UN 3501 Chemical under pressure, flammable, n.o.s. (Propane; Isobutane), 2.1	UN 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Propane ; Isobutane), 2.1	UN 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Propane ; Isobutane), 2.1
14.3. Transport hazard	class(es)			
2.1	2.1	2.1	2.1	2.1
14.4. Packing group	2	2	2	2
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable



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ADR	IMDG	IATA	ADN	RID
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 8F Special provisions (ADR) : 274, 659 Limited quantities (ADR) : 0 Excepted quantities (ADR) : E0 Packing instructions (ADR) : P206 Special packing provisions (ADR) : PP89 Mixed packing provisions (ADR) : MP9 Portable tank and bulk container instructions (ADR) : T50 Portable tank and bulk container special provisions : TP4, TP40

(ADR)

Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : -Special provisions for carriage - Bulk (ADR) : --

Special provisions for carriage - Loading, unloading : CV9, CV10, CV12, CV36

and handling (ADR)

Special provisions for carriage - Operation (ADR) : S2 Hazard identification number (Kemler No.) : 23

Orange plates

23 3501

Tunnel restriction code (ADR) : B/D EAC code : 2YE

Transport by sea

Special provisions (IMDG) : 274, 362 Limited quantities (IMDG) : 0 Excepted quantities (IMDG) : E0 Packing instructions (IMDG) : P206 Special packing provisions (IMDG) : PP89 Tank instructions (IMDG) : T50 Tank special provisions (IMDG) : TP4, TP40 EmS-No. (Fire) : F-D EmS-No. (Spillage) : S-U Stowage category (IMDG) : D Stowage and handling (IMDG) : SW2

Properties and observations (IMDG) : Liquids, pastes or powders, pressurized with a propellant which meets the definition of a

gas.

Air transport

PCA Excepted quantities (IATA) : E0 PCA Limited quantities (IATA) : Forbidden PCA limited quantity max net quantity (IATA) : Forbidden PCA packing instructions (IATA) : Forbidden PCA max net quantity (IATA) : Forbidden CAO packing instructions (IATA) : 218 CAO max net quantity (IATA) : 75kg : A1, A187 Special provisions (IATA) ERG code (IATA) : 10L



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Inland waterway transport

Classification code (ADN) : 8F

Special provisions (ADN) : 274, 659

Limited quantities (ADN) : 0

Excepted quantities (ADN) : E0

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : 8F Special provisions (RID) 274, 659 Limited quantities (RID) 0 Excepted quantities (RID) E0 Packing instructions (RID) P206 Special packing provisions (RID) PP89 Mixed packing provisions (RID) MP9 Portable tank and bulk container instructions (RID) T50 Portable tank and bulk container special provisions TP4, TP40

(RID)

Transport category (RID) : 2

Special provisions for carriage - Loading, unloading : CW9, CW10, CW12, CW36

and handling (RID)

Colis express (express parcels) (RID) : CE2 Hazard identification number (RID) : 23

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP)

EU restriction list (REACH Annex XVII)		
Reference code Applicable on		
3(a)	propyl acetate ; methyl acetate	
3(b)	propyl acetate ; methyl acetate	
40.	propyl acetate ; methyl acetate ; Propane ; Isobutane	

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.



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15.1.2. National regulations

United Kingdom

British National Regulations

: Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives, in the valid wording.

Regulation (EC) No 1013/2006 of the European Parliament and of the Council on shipments

of waste, in the valid wording. UK Waste Regulations.

UK REACH. GB CLP.

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
2.2	Precautionary statements (CLP)	Modified	
2.3	Other hazards not contributing to the classification	Modified	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures general	Modified	
4.1	First-aid measures after skin contact	Modified	
4.2	Symptoms/effects	Modified	
5.1	Unsuitable extinguishing media	Modified	
6.1	Emergency procedures	Modified	
6.2	Environmental precautions	Modified	
6.3	Methods for cleaning up	Modified	
7.1	Precautions for safe handling	Modified	
7.2	Information on mixed storage	Added	
8.2	Skin and body protection	Modified	
8.2	Respiratory protection	Modified	
8.2	Hand protection	Modified	
8.2	Eye protection	Modified	
9.1	Vapour pressure	Modified	
13.1	European List of Waste (LoW) code	Added	

Abbreviations and acronyms:		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
IATA	International Air Transport Association	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
IMDG	International Maritime Dangerous Goods	
DNEL	Derived-No Effect Level	
PNEC	Predicted No-Effect Concentration	



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Abbreviations and acronyms:		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
SDS	Safety Data Sheet	
PBT	Persistent Bioaccumulative Toxic	
vPvB	Very Persistent and Very Bioaccumulative	

Data sources : ECHA Guidance on the compilation of safety data sheets

ECHA C&L Inventory database. Supplier's safety documents.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the

packaging.

Full text of H- and EUH-statements:		
EUH066	Repeated exposure may cause skin dryness or cracking.	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Gas 1A	Flammable gases, Category 1A	
Flam. Liq. 2	Flammable liquids, Category 2	
H220	Extremely flammable gas.	
H225	Highly flammable liquid and vapour.	
H280	Contains gas under pressure; may explode if heated.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
Press. Gas (Comp.)	Gases under pressure : Compressed gas	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Gas 1A	H220	Calculation method
Press. Gas (Liq.)	H280	On basis of test data
Eye Irrit. 2	H319	Calculation method

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.