

Hranifix Cleaner

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Issue date: 05/06/2018

Revision date: 02/03/2021

Supersedes version of: 05/06/2018

Version: 2.0

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

1.1. Product identifier

Product form : Mixture
 Product name : Hranifix Cleaner
 UFI : VJY2-E0KA-G00V-WXQP
 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 : Product for industrial use only
 Use of the substance/mixture : Solvent-based cleaner

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
 396 01 Humpolec - Czech Republic
 T 565 501 210
help@ecomole.com - www.hranipex.cz

Supplier

Hranipex Ltd.
 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	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	
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, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	

Hranifix Cleaner

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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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
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Carcinogenicity, Category 2	H351
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity — Repeated exposure, Category 2	H373

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Extremely flammable gas. Contains gas under pressure; may explode if heated. May cause drowsiness or dizziness. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: Dichloromethane

Hazard statements (CLP)

: H220 - Extremely flammable gas.
 H280 - Contains gas under pressure; may explode if heated.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H336 - May cause drowsiness or dizziness.
 H351 - Suspected of causing cancer.
 H373 - May cause damage to organs through prolonged or repeated exposure.

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.
 P260 - Do not breathe mist, vapours, spray.
 P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 P302+P352 - IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P410+P403 - Protect from sunlight. Store in a well-ventilated place.

2.3. Other hazards

Other hazards which do not result in classification : Contact with the product may cause cold burns or frostbite. Vapours are heavier than air and may spread along floors. The product does not meet the PBT and vPvB classification criteria.

Component	
Dichloromethane (75-09-2)	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
Isobutane (75-28-5)	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

Hranifix Cleaner

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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Component

Propane (74-98-6)	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
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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

Component

Isobutane(75-28-5)	The substance is not 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
Propane(74-98-6)	The substance is not 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

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]
Dichloromethane	CAS-No.: 75-09-2 EC-No.: 200-838-9 EC Index-No.: 602-004-00-3	< 70	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 STOT RE 2, H373
Isobutane	CAS-No.: 75-28-5 EC-No.: 200-857-2 EC Index-No.: 601-004-00-0	< 15	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Propane	CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5 REACH-no: 01-2119486944-21	< 15	Flam. Gas 1A, H220 Press. Gas (Comp.), H280

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention. First aider: Pay attention to self-protection!.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if necessary. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Thaw frosted parts with lukewarm water. Do not rub affected area. Do not attempt to remove the bonded parts by force. Wash skin with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

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Issue date: 05/06/2018

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First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. If vomiting occurs have person lean forward. Do NOT induce vomiting. Call a physician immediately.

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

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Eye irritation. May cause frostbite.
Chronic symptoms	: May cause damage to organs through prolonged or repeated exposure. May cause cancer.

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

Treat symptomatically. Upon exposure to Dichlormethane: Do not administer any preparations of the adrenaline-ephedrine group.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Foam. Dry powder. 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	: The vapours are denser than air and may travel along the ground. Distance ignition possible.
Hazardous decomposition products in case of fire	: Fire could produce a combination of irritating and toxic gases. Hydrogen chloride. Phosgene. Chlorine. Carbon oxides (CO and CO ₂).

5.3. Advice for firefighters

Firefighting instructions	: Eliminate all ignition sources if safe to do so. Move containers from fire area if it can be done without personal risk. Use water to cool tanks/containers close to the heat source of fire. 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Keep upwind. Remove ignition sources. No open flames, no sparks, and no smoking. Do not breathe vapours, mist, spray. Avoid any direct contact with the product.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Do not allow the mixture to enter into sewer, water system (underground water, surface water) or soil. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: If possible, allow spill to evaporate under surveillance. Ensure adequate ventilation. Take up liquid spill into absorbent material. Collect all waste in suitable and labelled containers and dispose according to local legislation. Notify environmental authorities.
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Revision date: 02/03/2021

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Other information : Dispose of materials or solid residues at an authorized site.

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 : Obtain special instructions before use. Wear personal protective equipment. Do not handle until all safety precautions have been read and understood. Avoid any direct contact with the product. Do not breathe mist, vapours, spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Eliminate all ignition sources if safe to do so. Use only outdoors or in a well-ventilated area. Ground/bond container and receiving equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep only in the original container. Store in dry, cool, well-ventilated area. Protect from heat and direct sunlight. Always keep container in upright position. Store at room temperature.

Incompatible materials : Acids. Bases. Strong oxidizing agents. Alkali metals.

Information on mixed storage : Storage class: 2A

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

Dichloromethane (75-09-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Methylene chloride; Dichloromethane
IOEL TWA	353 mg/m ³
IOEL TWA [ppm]	100 ppm
IOEL STEL	706 mg/m ³
IOEL STEL [ppm]	200 ppm
Notes	skin
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
United Kingdom - Occupational Exposure Limits	
Local name	Dichloromethane
WEL TWA (OEL TWA) [1]	350 mg/m ³
WEL TWA (OEL TWA) [2]	100 ppm
WEL STEL (OEL STEL)	1060 mg/m ³
WEL STEL (OEL STEL) [ppm]	300 ppm

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Revision date: 02/03/2021

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Version: 2.0

Dichloromethane (75-09-2)

Remark (WEL)	BMGV (Biological monitoring guidance values are listed in Table 2), Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Third edition, 2018). HSE

Propane (74-98-6)

EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Propan
IOEL TWA	1800
IOEL TWA [ppm]	1000 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

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Keep away from open flames, hot surfaces and sources of ignition.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. Wear recommended personal protective equipment.

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side shields. EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable coveralls to prevent exposure to the skin

Hand protection:

Chemical resistant gloves (according to European standard EN 374 or equivalent)

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. 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:

Protective equipment and clothing wash before reuse. Do not eat, drink or smoke when using this product. Wash hands before break and at end of works.

Hranifix Cleaner

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Supersedes version of: 05/06/2018

Version: 2.0

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	: -97 °C
Boiling point	: 40 °C
Flammability	: Extremely flammable gas.
Explosive properties	: No data available.
It does not have oxidising properties	: No data available.
Explosion limits	: Not available
Lower explosive limit (LEL)	: 12 vol %
Upper explosive limit (UEL)	: 19 vol %
Flash point	: -90 °C Closed cup
Auto-ignition temperature	: > 556.1 °C
Decomposition temperature	: Not available
pH	: Not applicable
Viscosity, kinematic	: Not applicable
Solubility	: Insoluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: 1.25
Vapour pressure	: 70 psig @ 21.1 °C
Vapour pressure at 50 °C	: Not available
Density	: 1.3 g/ml 25 °C
Relative density	: Not applicable
Relative vapour density at 20 °C	: 2.15 (Air=1)
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable gas.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known under normal conditions of use.

Hranifix Cleaner

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Issue date: 05/06/2018

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Supersedes version of: 05/06/2018

Version: 2.0

10.4. Conditions to avoid

High temperature. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition. Do not spray on an open flame or other ignition source.

10.5. Incompatible materials

Acids. Bases. Strong oxidizing agent. Alkali metals.

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)

Dichloromethane (75-09-2)

LD50 oral rat > 2000 mg/kg (OECD 402)

LD50 dermal rat > 2000 mg/kg (OECD 402)

LC50 Inhalation - Rat (Vapours) 52 mg/l/4h (OECD 402)

Skin corrosion/irritation : Causes skin irritation.
 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 : Suspected of causing cancer.
 Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
 STOT-single exposure : May cause drowsiness or dizziness.

Dichloromethane (75-09-2)

LOAEC (inhalation, rat, vapour) 2000 ppm (OECD 451)

STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Dichloromethane (75-09-2)

NOAEC (inhalation, rat, vapour, 90 days) 200 ppm (OECD 453)

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

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

Hranifix Cleaner

Vaporizer Container fitted with a sealed spray attachment

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hranifix Cleaner

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Issue date: 05/06/2018

Revision date: 02/03/2021

Supersedes version of: 05/06/2018

Version: 2.0

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

Hranifix Cleaner

LC50 - Fish [1]	> 100 mg/l estimated
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Dichloromethane (75-09-2)

LC50 - Fish [1]	193 mg/l (Fathead minnow)
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12.2. Persistence and degradability

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Persistence and degradability	Not readily biodegradable.
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Biodegradation	< 26 %
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12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (Log Pow)	1.25
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Bioaccumulative potential	Low bioaccumulation potential. Bioaccumulation unlikely.
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12.4. Mobility in soil

Hranifix Cleaner

Ecology - soil	Low mobility (soil). Insoluble in water.
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12.5. Results of PBT and vPvB assessment

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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

Component

Dichloromethane (75-09-2)	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
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Isobutane (75-28-5)	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
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Propane (74-98-6)	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
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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Do not discharge into drains or the environment

Hranifix Cleaner

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Issue date: 05/06/2018

Revision date: 02/03/2021

Supersedes version of: 05/06/2018

Version: 2.0

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Product/Packaging disposal recommendations	: Do not dispose of the packaging without first carrying out the necessary cleaning. Do not pierce or burn, even after use. Recycle product or dispose safely.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 14 06 03* - other solvents and solvent mixtures 15 01 04 - metallic packaging
HP Code	: 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. HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration. HP7 - "Carcinogenic:" waste which induces cancer or increases its incidence

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3501	UN 3501	UN 3501	UN 3501	UN 3501
14.2. UN proper shipping name				
CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S.			
Transport document description (ADR)				
UN 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S., 2.1, (B/D)	UN 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S., 2.1	UN 3501 Chemical under pressure, flammable, n.o.s., 2.1	UN 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S., 2.1	UN 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S., 2.1
14.3. Transport hazard class(es)				
2.1	2.1	2.1	2.1	2.1
				

Hranifix Cleaner

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Issue date: 05/06/2018

Revision date: 02/03/2021

Supersedes version of: 05/06/2018

Version: 2.0

ADR	IMDG	IATA	ADN	RID
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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 (ADR)	: TP4, TP40
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 and handling (ADR)	: CV9, CV10, CV12, CV36
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: B/D

Transport by sea

Special provisions (IMDG)	: 274, 362
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
CAO max net quantity (IATA)	: Forbidden
CAO packing instructions (IATA)	: 218
CAO max net quantity (IATA)	: 75kg
Special provisions (IATA)	: A1, A187
ERG code (IATA)	: 10L

Inland waterway transport

Classification code (ADN)	: 8F
Special provisions (ADN)	: 274, 659

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Issue date: 05/06/2018

Revision date: 02/03/2021

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Version: 2.0

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 (RID)	: TP4, TP40
Transport category (RID)	: 2
Special provisions for carriage - Loading, unloading and handling (RID)	: CW9, CW10, CW12, CW36
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)

EU restriction list (REACH Annex XVII)

Reference code	Applicable on
3(b)	Dichloromethane
40.	Isobutane ; Propane
59.	Dichloromethane

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

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)

15.1.2. National regulations

No additional information available.

15.2. Chemical safety assessment

No additional information available

Hranifix Cleaner

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Issue date: 05/06/2018

Revision date: 02/03/2021

Supersedes version of: 05/06/2018

Version: 2.0

SECTION 16: Other information

Indication of changes

Section	Changed item	Change	Comments
	Supersedes	Added	
	Revision date	Added	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures general	Modified	
4.2	Chronic symptoms	Modified	
5.2	Hazardous decomposition products in case of fire	Modified	
6.1	Emergency procedures	Modified	
6.2	Environmental precautions	Modified	
6.3	Methods for cleaning up	Modified	
8.2	Respiratory protection	Modified	
8.2	Appropriate engineering controls	Modified	
9.1	Vapour pressure	Modified	

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
EC50	Median effective concentration
LC50	Median lethal concentration
LD50	Median lethal dose
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
OECD	Organisation for Economic Co-operation and Development

Data sources

: 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).
Dissemination portal ECHA <https://echa.europa.eu/cs/search-for-chemicals>.
SDS KIT KLEAN (Sprayable Solvent Cleaner), Date February 2021, Version 4.2.

Hranifix Cleaner

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Issue date: 05/06/2018

Revision date: 02/03/2021

Supersedes version of: 05/06/2018

Version: 2.0

Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging. Provide SDS to employees. Follow general rules on handling chemical substances and/or mixtures.
Other information	: SDS was treated by EcoMole LTD. www.ecomole.com .

Full text of H- and EUH-statements

Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

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

Flam. Gas 1A	H220	
Press. Gas (Liq.)	H280	Expert judgment
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Carc. 2	H351	Calculation method
STOT SE 3	H336	Calculation method
STOT RE 2	H373	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.