

GLITTER SPRAY - 089680-NFDT-EN



SAFETY DATA SHEET
(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

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

1.1. Product identifier

Product name : GLITTER SPRAY

Product code : 089680-NFDT-EN.

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

Ideal for use on handicrafts (e.g. cones, cardboard, etc.), Christmas decorations and flower arrangements. Only use the product as directed on the aerosol.

1.3. Details of the supplier of the safety data sheet

Registered company name : Volcke Aerosol Company NV.

Address : Industrielaan 15. B-8520. Kuurne. Belgium.

Telephone : +32 (0) 56 35 17 23. Fax : +32 (0) 56 35 30 69.

info@volcke-aerosol-connection.com

http://www.volcke-aerosol-connection.com

1.4. Emergency telephone number : +32 (0) 56 35 17 23.

Association/Organisation : http://www.volcke-aerosol-connection.com.

Hours of operation : Monday - Thursday : 8:00-17:00; Friday : 8:00-13:00

Other emergency numbers

United Kingdom : National Poisons Information Service : +44 (0)844 892 0111. Ireland : Poisons Information Centre of Ireland : +353 1 809 2166. Malta : Emergency number : 112 ; Medicines & Poisons info Office : 2545 6508.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Aerosol, Category 3 (Aerosol 3, H229).

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

The propellant gas is not taken into account when determining the health and environmental classification of the mixture.

2.2. Label elements

Mixture for aerosol application.

In compliance with EC regulation No. 1272/2008 and its amendments.

Signal Word :

WARNING

Additional labeling :

29% by mass of the contents are flammable.

Hazard statements :

H229 Pressurised container: May burst if heated.

Precautionary statements - General :

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statements - Prevention :

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

Precautionary statements - Storage :

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq$ 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances $\geq$ 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

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Intentional misuse of the preparation by concentrating and inhaling the vapours can be harmful or fatal.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	Note	%
EC: 918-167-1 REACH: 01-2119472146-39 HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS	GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 4, H413 EUH:066		10 <= x % < 25
CAS: 109-87-5 EC: 203-714-2 REACH: 01-2119664781-31 METHYLAL	GHS02 Dgr Flam. Liq. 2, H225	[1]	1 <= x % < 2.5
CAS: 106-97-8 EC: 203-448-7 REACH: 01-2119474691-32-XXXX BUTANE (< 0,1 % 1,3-BUTADIENE)	GHS02 Dgr Flam. Gas 1, H220 Press. Gas, H280	C [1] [7]	1 <= x % < 2.5
CAS: 74-98-6 EC: 200-827-9 REACH: 01-2119486944-21-XXXX PROPANE	GHS02 Dgr Flam. Gas 1, H220 Press. Gas, H280	[1] [7]	1 <= x % < 2.5
CAS: 107-41-5 EC: 203-489-0 REACH: 01-2119539582-35-XXXX 2-METHYLPENTANE-2,4-DIOL	GHS07, GHS08 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d	[1] [2]	0.1 <= x % < 1
CAS: 75-28-5 EC: 200-857-2 REACH: 01-2119485395-27-XXXX ISOBUTANE	GHS02 Dgr Flam. Gas 1, H220 Press. Gas, H280	C [1] [7]	0.1 <= x % < 1
CAS: 55965-84-9 METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE	GHS06, GHS05, GHS09 Dgr Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 M Acute = 100 Aquatic Chronic 1, H410 M Chronic = 100 EUH:071	B [1]	0 >= x % < 0.0005

Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 109-87-5 EC: 203-714-2 REACH: 01-2119664781-31 METHYLAL		oral: ATE = 6453 mg/kg BW
CAS: 55965-84-9 METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE	Skin Corr. 1C: H314 C>= 0.6% Skin Irrit. 2: H315 0.06% <= C < 0.6% Eye Dam. 1: H318 C>= 0.6% Eye Irrit. 2: H319 0.06% <= C < 0.6% Skin Sens. 1A: H317 C>= 0.0015%	inhalation: ATE = 0.31 mg/l 4h (dust/mist) oral: ATE = 100 mg/kg BW

Information on ingredients :

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

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[2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

[7] Propellant gas

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

In the event of splashes or contact with skin :

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

In the event of swallowing :

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

See section 11.

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

If you feel unwell, seek medical advice (show the label if possible). If symptoms persist, always call a doctor.

SECTION 5 : FIREFIGHTING MEASURES

5.1. Extinguishing media

If the aerosols are exposed to a fire : keep containers cool by spraying with water from a protected position.

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO2)

In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

5.3. Advice for firefighters

If possible, stop the product stream. Spray from a protected position till the containers are cool. If possible, take the aerosols outside. Keep public at a distance.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

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6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention :

Handle in well-ventilated areas.

Do not pierce or burn, even after use.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in aerosols.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Keep away from heat and sources of ignition. Storage in a dry, frost-free and well ventilated place.

Store upright.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- Switzerland (Suva 2021) :

CAS	VME	VLE	Valeur plafond	Notations
109-87-5	1000 ppm 3100 mg/m ³	2000 ppm 6200 mg/m ³		
106-97-8	800 ppm 1900 mg/m ³	3200 ppm 7600 mg/m ³		
74-98-6	1000 ppm 1800 mg/m ³	4000 ppm 7200 mg/m ³		
107-41-5	10 ppm 49 mg/m ³	20 ppm 98 mg/m ³		
75-28-5	800 ppm 1900 mg/m ³	3200 ppm 7600 mg/m ³		
55965-84-9	0.2 ppm	0.4 ppm		

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

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CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
109-87-5	1000 ppm 3160 mg/m ³	1250 ppm 3950 mg/m ³			
106-97-8	600 ppm 1450 mg/m ³	750 ppm 1810 mg/m ³		Carc	
107-41-5	25 ppm 123 mg/m ³	25 ppm 123 mg/m ³			

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : AGW (DE) : 300 mg/m³ (8 h)

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

Dermal contact.
Long term systemic effects.
63 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
44.43 mg of substance/m³

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term local effects.
49 mg of substance/m³

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Short term local effects.
98 mg of substance/m³

Final use:

Exposure method:
Potential health effects:
DNEL :

Consumers.

Ingestion.
Long term systemic effects.
2.25 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Long term systemic effects.
22.5 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
7.83 mg of substance/m³

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term local effects.
25 mg of substance/m³

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Short term local effects.
49 mg of substance/m³

METHYLAL (CAS: 109-87-5)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

Dermal contact.
Long term systemic effects.
17.9 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
126.6 mg of substance/m³

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Final use:

Exposure method:
Potential health effects:
DNEL :

Consumers.

Ingestion.
Long term systemic effects.
18.1 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Long term systemic effects.
18.1 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
31.5 mg of substance/m3

Predicted no effect concentration (PNEC):

2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)

Environmental compartment:
PNEC : Soil.
0.066 mg/kg

Environmental compartment:
PNEC : Fresh water.
0.429 mg/l

Environmental compartment:
PNEC : Sea water.
0.0429 mg/l

Environmental compartment:
PNEC : Intermittent waste water.
4.29 mg/l

Environmental compartment:
PNEC : Fresh water sediment.
1.59 mg/kg

Environmental compartment:
PNEC : Marine sediment.
0.159 mg/kg

Environmental compartment:
PNEC : Waste water treatment plant.
20 mg/l

METHYLAL (CAS: 109-87-5)

Environmental compartment:
PNEC : Soil.
4.6538 mg/kg

Environmental compartment:
PNEC : Fresh water.
14.577 mg/l

Environmental compartment:
PNEC : Sea water.
1.477 mg/l

Environmental compartment:
PNEC : Fresh water sediment.
13.135 mg/kg

Environmental compartment:
PNEC : Marine sediment.
1.3135 mg/kg

Environmental compartment:
PNEC : Waste water treatment plant.
10 g/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

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Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

Do not spray in the direction of the eyes.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Type of gloves recommended :

- Natural latex

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- PVC (polyvinyl chloride)

- Butyl Rubber (Isobutylene-isoprene copolymer)

Not necessary at efficient use. Wash your hands after contact with skin.

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

Not necessary at efficient use. Wash skin that has been in contact with the product, with water and soap.

- Respiratory protection

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)

Do not breathe spray. Use only in well-ventilated areas.

Exposure controls linked to environmental protection

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Physical state : Fluid liquid.
Spray.

Colour

Gold, silver, multi and rose gold

Odour

Odour threshold : Not stated.
Odour : Specific

Freezing point

Freezing point / Freezing range : Not stated.

Boiling point or initial boiling point and boiling range

Boiling point/boiling range : Not relevant.

Flammability

Flammability (solid, gas) : Not stated.
Flammability : Not applicable

Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) : Not stated.
Explosive properties, upper explosivity limit (%) : Not stated.

Flash point

Flash point interval : Not relevant.

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Auto-ignition temperature

Self-ignition temperature : Not relevant.

Decomposition temperature

Decomposition point/decomposition range : Not relevant.

pH

pH (aqueous solution) : Not stated.

pH : 7.00 .

Neutral.

Kinematic viscosity

Viscosity : Not stated.

Solubility

Water solubility : Soluble.

Fat solubility : Not stated.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water : Not stated.

Vapour pressure

Vapour pressure (50°C) : Not relevant.

Density and/or relative density

Density : 0.933

Relative vapour density

Vapour density : Not stated.

9.2. Other information

VOC (g/l) : 276.05

Pressure at 20°C : ± 5.5 bar

Pressure at 50°C : < 12 bar

Water content : Water-based formulation

9.2.1. Information with regard to physical hazard classes

No data available.

Aerosols

Chemical combustion heat : < 20 kJ/g.

Inflammation time : > 300 s/m3.

Ignition distance : No ignition

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Avoid :

- frost

- heat

- flames and hot surfaces

Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from heat and sources of ignition. Storage in a dry, frost-free and well ventilated place.

10.5. Incompatible materials

No materials known by which a dangerous reaction can occur.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

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- carbon dioxide (CO₂)

The product is stable. 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

Splashes in the eyes may cause irritation and reversible damage

11.1.1. Substances

Acute toxicity :

ISOBUTANE (CAS: 75-28-5)

Inhalation route (Dusts/mist) : LC50 > 10 mg/l

PROPANE (CAS: 74-98-6)

Inhalation route (Dusts/mist) : LC50 > 10 mg/l

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Inhalation route (Vapours) : LC50 > 10 mg/l

METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE (CAS: 55965-84-9)

Oral route : LD50 = 100 mg/kg
Species : Rat

Inhalation route (Dusts/mist) : LC50 = 0.31 mg/l
Species : Rat
Duration of exposure : 4 h

2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)

Oral route : LD50 > 2000 mg/kg
Species : Rat
OECD Guideline 420 (Acute Oral Toxicity Fixed Dose Method)

Dermal route : LD50 >= 2000 mg/kg
Species : Rat
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Vapours) : LC50 > 55 mg/l
Species : Rat
OECD Guideline 403 (Acute Inhalation Toxicity)
Duration of exposure : 4 h

METHYLAL (CAS: 109-87-5)

Oral route : LD50 = 6453 mg/kg
Species : Rat
OECD Guideline 423 (Acute Oral toxicity Acute Toxic Class Method)

Dermal route : LD50 > 5000 mg/kg
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

Oral route : LD50 > 5000 mg/kg
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 5000 mg/kg
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : LC50 > 5.6 mg/l
Species : Rat

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OECD Guideline 403 (Acute Inhalation Toxicity)
Duration of exposure : 4 h

Skin corrosion/skin irritation :

Methylal : Not irritating. Repeated or prolonged skin contact may cause dermatitis and defatting.

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : Not classified as skin corrosive/irritant but marked with EUH066.

2-Methylpentane-2,4-diol : Irritating to skin. Product is being absorbed through the skin.

Butane/Isobutane/Propane : Based on available data, the classification criteria are not met.

2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)

Corrosivity : No observed effect.
Species : Rabbit
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

METHYLAL (CAS: 109-87-5)

Species : Rabbit
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Irritation : Average score = 4.2
Effect observed : Primary dermal irritation index (PDII)
Species : Rabbit
Duration of exposure : 72 h
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious damage to eyes/eye irritation :

Methylal : Not irritating.

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : Not classified as damaging or irritant to eyes.

2-Methylpentane-2,4-diol : Irritating to eyes.

Butane/Isobutane/Propane : Based on available data, the classification criteria are not met.

METHYLAL (CAS: 109-87-5)

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

Corneal haze : Average score = 0
Species : Rabbit
Duration of exposure : 72 h
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Iritis : Average score = 0
Species : Rabbit
Duration of exposure : 72 h
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Conjunctival redness : Average score = 0
Species : Rabbit
Duration of exposure : 72 h
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Conjunctival oedema : Average score = 0
Species : Rabbit
Duration of exposure : 72 h
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitisation :

Butane/Isobutane/Propane : Based on available data, the classification criteria are not met.

2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)

Guinea Pig Maximisation Test (GMPT) : Non-sensitiser.

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Species : Guinea pig
OECD Guideline 406 (Skin Sensitisation)

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

Guinea Pig Maximisation Test (GMPT) : Non-sensitiser.
Species : Guinea pig
OECD Guideline 406 (Skin Sensitisation)

METHYLAL (CAS: 109-87-5)

Local lymph node stimulation test : Non-Sensitiser.
OECD Guideline 406 (Skin Sensitisation)

Guinea Pig Maximisation Test (GMPT) :

Non-sensitiser.
Species : Guinea pig
OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity :

METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE (CAS: 55965-84-9)

No mutagenic effect.

ISOBUTANE (CAS: 75-28-5)

No mutagenic effect.

2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)

No mutagenic effect.

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) :

Negative.
With or without metabolic activation.
Species : S. typhimurium TA1535

PROPANE (CAS: 74-98-6)

No mutagenic effect.

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

No mutagenic effect.

METHYLAL (CAS: 109-87-5)

No mutagenic effect.

Mutagenesis (in vivo) :

Negative.
Species : Mouse
OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Mutagenesis (in vitro) :

Negative.
Species : Mammalian Cell Line
OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

No mutagenic effect.

Mutagenesis (in vivo) :

Negative.
Species : Rat
OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)

Mutagenesis (in vitro) :

Negative.
Species : Bacteria
OECD Guideline 471 (Bacterial Reverse Mutation Assay)

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Species : S. typhimurium TA102

Carcinogenicity :

METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE (CAS: 55965-84-9)

Carcinogenicity Test : Negative.
No carcinogenic effect.

ISOBUTANE (CAS: 75-28-5)

Carcinogenicity Test : Negative.
No carcinogenic effect.

2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)

Carcinogenicity Test : Negative.
No carcinogenic effect.

PROPANE (CAS: 74-98-6)

Carcinogenicity Test : Negative.
No carcinogenic effect.

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Carcinogenicity Test : Negative.
No carcinogenic effect.

METHYLAL (CAS: 109-87-5)

Carcinogenicity Test : Negative.
No carcinogenic effect.

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

Carcinogenicity Test : Negative.
No carcinogenic effect.
OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicant :

METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE (CAS: 55965-84-9)

No toxic effect for reproduction

ISOBUTANE (CAS: 75-28-5)

No toxic effect for reproduction

2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)

No toxic effect for reproduction
Suspected of damaging the unborn child.

PROPANE (CAS: 74-98-6)

No toxic effect for reproduction

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

No toxic effect for reproduction

METHYLAL (CAS: 109-87-5)

No toxic effect for reproduction

OECD Guideline 414 (Prenatal Developmental Toxicity Study)

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

No toxic effect for reproduction

Study on fertility :

Species : Rat
OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Study on development :

Species : Rat
OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

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Specific target organ systemic toxicity - single exposure :

Methylal : To human : Not classified for organ toxicity. For animals : No effects known.
Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : Not classified as toxic to a target organ.
Butane/Isobutane/Propane : Based on available data, the classification criteria are not met.
2-Methylpentane-2,4-diol : To human : Not classified for organ toxicity. For animals : No effects known.

Specific target organ systemic toxicity - repeated exposure :

Methylal : To human : Not classified for organ toxicity. For animals : No effects known.
Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : Not classified as toxic to a target organ.
Butane/Isobutane/Propane : Based on available data, the classification criteria are not met.
2-Methylpentane-2,4-diol : To human : Not classified for organ toxicity. For animals : No effects known.

METHYLAL (CAS: 109-87-5)

Inhalation route :

C = 6.3 mg/litre/6h/day
Species : Rat
Duration of exposure : 90 days
OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)

Oral route :

C = 450 mg/kg bodyweight/day
Species : Rat
Duration of exposure : 90 days
OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)

Aspiration hazard :

Methylal : Not considered hazardous.
Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : In case of swallowing or vomiting product can enter airways and can cause chemical pneumonitis and pulmonary oedema.
Butane/Isobutane/Propane : Not applicable to gases and gas mixtures.
2-Methylpentane-2,4-diol : Not considered hazardous.

11.1.2. Mixture

No toxicological data available for the mixture.

11.2. Information on other hazards

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE (CAS: 55965-84-9)

Fish toxicity :

LC50 = 0.58 mg/l
Factor M = 1
Species : Danio rerio
Duration of exposure : 96 h

0.00001 < NOEC <= 0.0001 mg/l
Factor M = 100

Crustacean toxicity :

EC50 = 1.02 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

0.00001 < NOEC <= 0.0001 mg/l
Factor M = 100

Algae toxicity :

ECr50 = 0.379 mg/l
Factor M = 1

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	Species : <i>Pseudokirchnerella subcapitata</i> Duration of exposure : 72 h
	NOEC = 0.188 mg/l Species : <i>Pseudokirchnerella subcapitata</i> Duration of exposure : 72 h
Aquatic plant toxicity :	0.001 < EC ₅₀ ≤ 0.01 mg/l Factor M = 100 Duration of exposure : 72 h
	0.00001 < NOEC ≤ 0.0001 mg/l Factor M = 100
2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)	
Fish toxicity :	LC ₅₀ = 8510 mg/l Species : <i>Gambusia affinis</i> Duration of exposure : 96 h OECD Guideline 203 (Fish, Acute Toxicity Test)
Crustacean toxicity :	EC ₅₀ = 5410 mg/l Species : <i>Daphnia magna</i> Duration of exposure : 48 h OECD Guideline 202 (<i>Daphnia</i> sp. Acute Immobilisation Test)
Algae toxicity :	EC ₅₀ > 429 mg/l Species : <i>Pseudokirchnerella subcapitata</i> Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC = 429 mg/l Species : <i>Pseudokirchnerella subcapitata</i> Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test)
METHYLAL (CAS: 109-87-5)	
Fish toxicity :	LC ₅₀ = 6990 mg/l Species : <i>Pimephales promelas</i> Duration of exposure : 96 h OECD Guideline 203 (Fish, Acute Toxicity Test)
	NOEC = 450.281 mg/l Duration of exposure : 28 days
Crustacean toxicity :	EC ₅₀ > 1200 mg/l Species : <i>Daphnia magna</i> Duration of exposure : 48 h OECD Guideline 202 (<i>Daphnia</i> sp. Acute Immobilisation Test)
	NOEC = 150.5 mg/l Species : <i>Daphnia magna</i> Duration of exposure : 28 days
Algae toxicity :	EC ₅₀ = 9120 mg/l Species : <i>Pseudokirchnerella subcapitata</i> Duration of exposure : 72 h
HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS	
Fish toxicity :	LC ₅₀ > 1000 mg/l Species : <i>Oncorhynchus mykiss</i>

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	Duration of exposure : 96 h OECD Guideline 203 (Fish, Acute Toxicity Test)
	NOEC = 0.209 mg/l Species : Oncorhynchus mykiss Duration of exposure : 28 days
Crustacean toxicity :	EC50 > 1000 mg/l Species : Daphnia magna Duration of exposure : 48 h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
	NOEC > 1 mg/l Species : Daphnia magna Duration of exposure : 21 days OECD Guideline 211 (Daphnia magna Reproduction Test)
Algae toxicity :	ECr50 > 1000 mg/l Species : Pseudokirchnerella subcapitata Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test)

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : Inherently biologically degradable. Transformation due to hydrolysis and due to photolysis is not expected to be significant. Expected to degrade rapidly in air.

12.2.1. Substances

ISOBUTANE (CAS: 75-28-5)

Biodegradability : Rapidly degradable.

2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)

Biodegradability : Rapidly degradable.
DBO5/DCO = 0.81

PROPANE (CAS: 74-98-6)

Biodegradability : Rapidly degradable.

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Biodegradability : Rapidly degradable.

METHYLAL (CAS: 109-87-5)

Biodegradability : Non-rapidly degradable.

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

Biodegradability : Non-rapidly degradable.
DBO5/DCO = 0.31

METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE (CAS: 55965-84-9)

Chemical oxygen demand : DCO = 159 mg/l

Biodegradability : Rapidly degradable.

12.3. Bioaccumulative potential

Butane/Isobutane/Propane : Not expected to be dangerous for the aquatic environment.

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : Not determined.

2-Methylpentane-2,4-diol : Bioaccumulation not expected.

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12.3.1. Substances

METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE (CAS: 55965-84-9)

Octanol/water partition coefficient : log K_{ow} = 0.401

2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)

Octanol/water partition coefficient : log K_{ow} = 0.58

METHYLAL (CAS: 109-87-5)

Octanol/water partition coefficient : log K_{ow} = 0

12.4. Mobility in soil

Butane/Isobutane/Propane : If released into the environment, the product will rapidly disperse into the atmosphere where it will undergo photochemical degradation.

Methylal : No data available.

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : Leaking material can soak in the sediment layer and cause soil and groundwater contamination.

2-Methylpentane-2,4-diol : Product completely soluble in water.

12.5. Results of PBT and vPvB assessment

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : PBT/vPvB : No.

Methylal : PBT/vPvB : No.

Butane/Isobutane/Propane : Not considered to be a PBT or a vPvB.

2-Methylpentane-2,4-diol : PBT/vPvB : No.

12.6. Endocrine disrupting properties

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

2-Methylpentane-2,4-diol : No information available about endocrine disrupting properties for the environment.

Butane/Isobutane/Propane : Not applicable.

Methylal : No additional information available.

12.7. Other adverse effects

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : Flowing product can lead to an accumulation of a film on the water surface that reduces the oxygen exchange and can lead to the death of organisms.

Butane/Isobutane/Propane : Not applicable.

2-Methylpentane-2,4-diol : Do not flush into surface water or sanitary sewer system. Avoid penetrating into the soil.

Methylal : Avoid release to the environment.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Recycle or dispose of waste in compliance with current legislation, namely the Ordinance on the Avoidance and Disposal of Waste (Waste Ordinance, VVEA, SR 814.600), the Ordinance on Waste from June 22, 2005 (VeVA, SR 814, 610) and DETEC Ordinance on Waste Lists.

Disposal of the product (the unused product, residual quantities, the cured product, emptied but uncleaned packaging) : preferably by an approved waste collector or a specialist disposal company. Suitable containers and methods of waste treatment should be used.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste) :

15 01 10 * packaging containing residues of or contaminated by dangerous substances

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SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021 - IMDG 2020 [40-20] - ICAO/IATA 2022 [63]).

14.1. UN number or ID number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, asphyxiant

14.3. Transport hazard class(es)

- Classification :

2.2

ADR/RID Label : Limited Quantity : 2.2 is not applicable.

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5A	-	2.2	-	1 L	190 327 344 625	E0	3	E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation	
	2	See SP63	-	See SP277	F-D. S-U	63 190 277 327 344 381 959	E0	- SW1 SW22	SG69	
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	2.2	-	-	203	75 kg	203	150 kg	A98 A145 A167 A802	E0	
	2.2	-	-	Y203	30 kg G	-	-	A98 A145 A167 A802	E0	

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

- Container information:

No data available.

-Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):
<https://echa.europa.eu/substances-restricted-under-reach>.

- Particular provisions :

Labelling following EU Regulation No. 517/2014 : Contains fluorinated greenhouse gases : HFC-152a.

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the following products or for the substances in these products :

Methylal

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics

2-Methylpentane-2,4-diol

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SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.

Abbreviations :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.
EC50 : The effective concentration of substance that causes 50% of the maximum response.
ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.
NOEC : The concentration with no observed effect.
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.
ATE : Acute Toxicity Estimate
BW : Body Weight
DNEL : Derived No-Effect Level
PNEC : Predicted No-Effect Concentration
CMR: Carcinogenic, mutagenic or reprotoxic.
STEL : Short-term exposure limit
TWA : Time Weighted Averages
TLV : Threshold Limit Value (exposure)
AEV : Average Exposure Value.
ADR : European agreement concerning the international carriage of dangerous goods by Road.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
ICAO : International Civil Aviation Organisation
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefährdungsklasse (Water Hazard Class).
PBT: Persistent, bioaccumulable and toxic.
vPvB : Very persistent, very bioaccumulable.
SVHC : Substances of very high concern.

Difference Report

Revision: N°5 (15/03/2023) / GHS n°4 / HCS n° / Version: N°1 (16/03/2023)

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Revision: N°4 (17/11/2021) / GHS n°3 / HCS n° / Version: N°1 (17/11/2021)

SECTION 2 : HAZARDS IDENTIFICATION

In compliance with EC regulation No. 1272/2008 and its amendments.

The propellant gas is not taken into account when determining the health and environmental classification of the mixture.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Composition :

CAS: 107-41-5 EC: 203-489-0 REACH: 01-2119539582-35-XXXX 2-METHYLPENTANE-2,4-DIOL	GHS07, GHS08 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d	[1] [2]	1 <= x % < 2.5
CAS: 107-41-5 EC: 203-489-0 REACH: 01-2119539582-35-XXXX 2-METHYLPENTANE-2,4-DIOL	GHS07, GHS08 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d	[1] [2]	0.1 <= x % < 1

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Spray.

9.2. Other information

VOC (g/l) : 276.05

SECTION 11 : TOXICOLOGICAL INFORMATION

Respiratory or skin sensitisation :

~~2-Methylpentane-2,4-diol : Not sensitizing.~~

Germ cell mutagenicity :

~~2-Methylpentane-2,4-diol : Not classified for mutagenic.~~

Carcinogenicity :

~~2-Methylpentane-2,4-diol : Not classified for carcinogenicity.~~

Reproductive toxicant :

~~2-Methylpentane-2,4-diol : Not classified for reproductive toxicity.~~

SECTION 12 : ECOLOGICAL INFORMATION

12.2. Persistence and degradability

~~Butane/Isobutane/Propane : Expected to be readily biodegradable.~~

12.6. Endocrine disrupting properties

~~No data available.~~

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

2-Methylpentane-2,4-diol : No information available about endocrine disrupting properties for the environment.

Butane/Isobutane/Propane : Not applicable.

Methylal : No additional information available.

12.7. Other adverse effects

~~No data available.~~

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : Flowing product can lead to an accumulation of a film on the water surface that reduces the oxygen exchange and can lead to the death of organisms.

Butane/Isobutane/Propane : Not applicable.

2-Methylpentane-2,4-diol : Do not flush into surface water or sanitary sewer system. Avoid penetrating into the soil.

Methylal : Avoid release to the environment.

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SECTION 14 : TRANSPORT INFORMATION

~~Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021 - IMDG 2020 - ICAO/IATA 2021).~~

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021 - IMDG 2020 [40-20] - ICAO/IATA 2022 [63]).

SECTION 15: Regulatory information

- Classification and labelling information included in section 2:

~~EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/643 (ATP 16)~~

~~EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)~~

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

-Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):
<https://echa.europa.eu/substances-restricted-under-reach>.