



Universal spray X73020

Print date 17.04.2023
Revision date 17.04.2023
Version 2.9 (en)
replaces version of 05.06.2020 (2.8)

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

*** 1.1 Product identifier**

Trade name/designation Universal spray X73020
Unique Formula Identifier UFI: HAE0-M0T4-E00C-CJGH

Hazard components

Kohlenwasserstoffe, C9-C11, n-Alkane, Isoalkane, Cycloalkane, <2% Aromaten

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

Sector of uses [SU]

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses

Use of the substance/mixture

Technical aerosols

*** 1.3 Details of the supplier of the safety data sheet**

Supplier

joke Technology GmbH
Asselborner Weg 14-16
D-51249 Bergisch Gladbach
Telephone +49 (0) 22 04 / 8 39-0
Telefax +49 (0) 22 04 / 8 39-60
E-mail info@joke.de
Website <https://www.joke-technology.com/>

Department responsible for information:

Telephone +49 (0) 22 04 / 8 39-0
Telefax +49 (0) 22 04 / 8 39-60

E-mail (competent person):
sida@joke.de

1.4 Emergency telephone number

Vergiftungs-I-Z. Freiburg +49 (0) 761 / 1 92 40
REACH and CLP UK CA Help Desk +44 171 635 9191

*** SECTION 2: Hazards identification**

*** 2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
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Aerosol 1, H222 H229
STOT SE 3, H336

Hazard statements for physical hazards

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Hazard statements for health hazards

H336 May cause drowsiness or dizziness.

*** Remark**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

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* **2.2 Label elements**

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

Hazard components

Kohlenwasserstoffe, C9-C11, n-Alkane, Isoalkane, Cycloalkane, <2% Aromaten

Hazard pictograms



GHS02



GHS07

Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H336 May cause drowsiness or dizziness.

* **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P304 IF INHALED:
P312 Call a POISON CENTER if you feel unwell.
P405 Store locked up.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents and containers in accordance with local, regional, national and international regulations.

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

* **Remark**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

* **Additional information**

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

* **2.3 Other hazards**

* **Adverse human health effects and symptoms**

Aspiration hazard

* **Adverse environmental effects**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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*** SECTION 3: Composition / information on ingredients****3.1 Substances**

not applicable

*** 3.2 Mixtures****Hazardous ingredients**

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
74-98-6	200-827-9	propane	≥ 50 ≤ 75 weight-%	Flam. Gas 1; H220 Press. Gas (Comp.); H280	
64742-48-9	919-857-5	Kohlenwasserstoffe, C9-C11, n-Alkane, Isoalkane, Cycloalkane, <2% Aromaten	≥ 25 ≤ 50 weight-%	Flam. Liq. 3; H226 STOT SE 3; H336 Asp. Tox. 1; H304; EUH066	
106-97-8	203-448-7	Butan (1,3 Butadiene <0,1%)	≥ 10 ≤ 25 weight-%	Flam. Gas 1; H220 Press. Gas (Comp.); H280	
64742-65-0	265-169-7	Distillates (petroleum), solvent-dewaxed heavy paraffinic	≥ 10 ≤ 25 weight-%	Asp. Tox. 1; H304	ATE(oral): > 5000 mg/kg ATE(dermal): > 5000 mg/kg
95-63-6	202-436-9	1,2,4-trimethylbenzene	< 1 weight-%	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Chronic 2; H411	ATE(oral): 5 g/kg ATE(inhalation vapour): 18000 mg/m ³

REACH No.	Substance name
01-2119486944-21	propane
01-2119463258-33	Kohlenwasserstoffe, C9-C11, n-Alkane, Isoalkane, Cycloalkane, <2% Aromaten
01-2119474691-32	Butan (1,3 Butadiene <0,1%)
01-2119471299-27	Distillates (petroleum), solvent-dewaxed heavy paraffinic
01-2119472135-42	1,2,4-trimethylbenzene

*** SECTION 4: First aid measures***** 4.1 Description of first aid measures***** General information**

If unconscious but breathing normally, place in recovery position and seek medical advice.
 Observe risk of aspiration if vomiting occurs.
 Never give anything by mouth to an unconscious person or a person with cramps.
 Keep airways open. Loosen tight-fitting clothing (e.g. collar, tie, belt or waistband).

*** Following inhalation**

Remove casualty to fresh air and keep warm and at rest.
 In the event of symptoms refer for medical treatment.
 If breathing is irregular or stopped, administer artificial respiration.
 In case of unconsciousness and breathing, place the patient in the recovery position and seek medical advice.



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* **Following skin contact**

After contact with skin, wash immediately with plenty of water and soap.
Take off contaminated clothing.
In case of skin irritation, consult a physician.

* **After eye contact**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Remove contact lenses, if possible

* **Following ingestion**

Rinse mouth immediately and drink plenty of water.
Do NOT induce vomiting.
Turn a vomiting person lying on his back onto his side.
Medical treatment necessary.

* **Self-protection of the first aider**

First aider: Pay attention to self-protection!
No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

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

* **Symptoms**

The following symptoms may occur:
Nausea
Vomiting
Unconsciousness
Headache
Dizziness
Cough
Irritating
Respiratory complaints
Depression of central nervous system

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

* **Notes for the doctor**

Treat symptomatically.
In case of ingestion or inhalation of large quantities, contact specialist or Poison Control Center immediately.

* **Special treatment**

none

* **SECTION 5: Firefighting measures**

* **5.1 Extinguishing media**

* **Suitable extinguishing media**

not determined

* **Unsuitable extinguishing media**

not determined

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In fires, hazardous combustion gases are formed:
Carbon monoxide
Carbon dioxide (CO₂)



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* **5.3 Advice for firefighters**

* **Special protective equipment for firefighters**

In case of fire: Wear self-contained breathing apparatus.
Protective clothing.

* **Additional information**

Co-ordinate fire-fighting measures to the fire surroundings.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.
Use water spray jet to protect personnel and to cool endangered containers.
The vapors of the product can collect on the floor in higher concentration and ignite again.

* **SECTION 6: Accidental release measures**

* **6.1 Personal precautions, protective equipment and emergency procedures**

* **For non-emergency personnel**

Remove persons to safety.
Avoid contact with skin and eyes.
Use personal protection equipment.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Remove all sources of ignition.

* **For emergency responders**

Personal protection equipment
Use appropriate respiratory protection.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.
In case of pollution of waters or sewers, inform the competent authorities.

* **6.3 Methods and material for containment and cleaning up**

* **For containment**

Take up residues with suitable absorbent materials.
After taking up the material dispose according to regulation.

* **6.4 Reference to other sections**

Disposal: see section 13
Emergency telephone number: see section 1
Personal protection equipment: see section 8

* **SECTION 7: Handling and storage**



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*** 7.1 Precautions for safe handling**

*** Protective measures**

Wear personal protection equipment (refer to section 8).
Container is under pressure.
Do not force open or burn after use.
Avoid effect of heat.
Avoid:
Eye contact
Skin contact
Inhalation of vapours or spray/mists
Use only in well-ventilated areas.
Keep away from sources of ignition - No smoking.
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
Use only antistatically equipped (spark-free) tools.
Empty containers contain product residues and can be hazardous.

*** Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff.
Wash hands and face before breaks and after work and take a shower if necessary.
Immediately remove any contaminated clothing, shoes or stockings.
Wash contaminated clothing prior to re-use.
In the immediate working surroundings there must be:
Provide eye shower and label its location conspicuously
Emergency shower installed

*** 7.2 Conditions for safe storage, including any incompatibilities**

*** Requirements for storage rooms and vessels**

Only use containers specifically approved for the substance/product.

Storage class

2B Aerosol dispensers and lighters

Materials to avoid

Do not store together with:
Food and feedingstuffs

*** Further information on storage conditions**

Protect from heat and direct solar radiation.
Storage temperature may not exceed 50°C (=122°F).
Keep in a cool, well-ventilated place.
Keep locked up.
Do not store the product near naked flames, heat or sources of ignition.

7.3 Specific end use(s)

Recommendation

See section 1.2

*** SECTION 8: Exposure controls/personal protection**

*** 8.1 Control parameters**

*** Occupational exposure limit values**

CAS No.	EC No.	Substance name	occupational exposure limit value
95-63-6	202-436-9	1,2,4-Trimethylbenzene	20 [ml/m ³ (ppm)] 100 [mg/m ³] 2000/39/EC

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CAS No.	EC No.	Substance name	occupational exposure limit value
95-63-6	202-436-9	Trimethylbenzenes, all isomers or mixtures	20 [ml/m ³ (ppm)] 100 [mg/m ³] (IE)
95-63-6	202-436-9	1,2,4-Trimethylbenzene	20 [ml/m ³ (ppm)] 100 [mg/m ³] (IE)
106-97-8	203-448-7	n-Butane	600 [ml/m ³ (ppm)] 1450 [mg/m ³] Short-term(ml/m ³) 750 Short-term(mg/m ³) 1810 (UK)
95-63-6	202-436-9	Trimethylbenzenes, all isomers or mixtures	25 [ml/m ³ (ppm)] 125 [mg/m ³] (UK)
106-97-8	203-448-7	n-Butane	Short-term(ml/m ³) 1000 (1) (1) 15 minutes average value (IE)

* **DNEL worker**

CAS No.	Substance name	DNEL value	DNEL type	Remark
64742-48-9	Kohlenwasserstoffe, C9-C11, n-208 mg/kg Alkane, Isoalkane, Cycloalkane, <2% Aromaten		long-term dermal (systemic)	
64742-48-9	Kohlenwasserstoffe, C9-C11, n-871 mg/m ³ Alkane, Isoalkane, Cycloalkane, <2% Aromaten		long-term inhalative (systemic)	
95-63-6	1,2,4-trimethylbenzene	100 mg/m ³	acute inhalative (local)	
95-63-6	1,2,4-trimethylbenzene	100 mg/m ³	long-term inhalative (local)	
95-63-6	1,2,4-trimethylbenzene	100 mg/m ³	acute inhalative (systemic)	
95-63-6	1,2,4-trimethylbenzene	100 mg/m ³	long-term inhalative (systemic)	
95-63-6	1,2,4-trimethylbenzene	16171 mg/kg	long-term dermal (systemic)	
64742-65-0	Distillates (petroleum), solvent- dewaxed heavy paraffinic	0.97 mg/kg	long-term dermal (systemic)	
64742-65-0	Distillates (petroleum), solvent- dewaxed heavy paraffinic	2.73 mg/m ³	long-term inhalative (systemic)	
64742-65-0	Distillates (petroleum), solvent- dewaxed heavy paraffinic	5.58 mg/m ³	long-term inhalative (local)	

* **DNEL Consumer**

CAS No.	Substance name	DNEL value	DNEL type	Remark
64742-48-9	Kohlenwasserstoffe, C9-C11, n-125 mg/kg Alkane, Isoalkane, Cycloalkane, <2% Aromaten		Long-term – oral, systemic effects	
64742-48-9	Kohlenwasserstoffe, C9-C11, n-125 mg/kg Alkane, Isoalkane, Cycloalkane, <2% Aromaten		long-term dermal (systemic)	
64742-48-9	Kohlenwasserstoffe, C9-C11, n-185 mg/m ³ Alkane, Isoalkane, Cycloalkane, <2% Aromaten		long-term inhalative (systemic)	

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CAS No.	Substance name	DNEL value	DNEL type	Remark
95-63-6	1,2,4-trimethylbenzene	15 mg/kg	Long-term – oral, systemic effects	
95-63-6	1,2,4-trimethylbenzene	29.4 mg/m ³	acute inhalative (local)	
95-63-6	1,2,4-trimethylbenzene	29.4 mg/m ³	long-term inhalative (local)	
95-63-6	1,2,4-trimethylbenzene	29.4 mg/m ³	acute inhalative (systemic)	
95-63-6	1,2,4-trimethylbenzene	29.4 mg/m ³	long-term inhalative (systemic)	
95-63-6	1,2,4-trimethylbenzene	9512 mg/kg	long-term dermal (systemic)	
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	0.74 mg/kg	Long-term – oral, systemic effects	
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	1.19 mg/m ³	long-term inhalative (local)	

* **8.2 Exposure controls*** **Appropriate engineering controls*** **Technical measures to prevent exposure**

ventilation system

Ventilation levels must be adapted to conditions. If necessary, use process chambers, local exhaust systems or other technical protective measures to control the concentrations in the air in order to keep them below the recommended exposure limits.

the recommended exposure limits. If no exposure limits have been set have been set, maintain airborne concentrations at an acceptable level. Use explosion-proof ventilation system.

* **Personal protection equipment****Eye/face protection**

tightly fitting goggles

* **Hand protection**

chemical-resistant gloves

impermeable gloves

Check leak tightness/impermeability prior to use.

Suitable material:

NBR (Nitrile rubber)

Butyl caoutchouc (butyl rubber)

Breakthrough times and swelling properties of the material must be taken into consideration.

* **Body protection:**

Protective clothing

EN 1149

antistatic

* **Respiratory protection**

Respiratory protection necessary at:

insufficient ventilation

Suitable respiratory protection apparatus:

Short term: filter apparatus, filter AX

Particle filter device (DIN EN 143)



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* **Environmental exposure controls**

* **Technical measures to prevent exposure**

Take appropriate protective measures to limit or prevent emissions.
 Exhaust air scrubber

Additional information

The national and local legal regulations are to be observed.

* **SECTION 9: Physical and chemical properties**

* **9.1 Information on basic physical and chemical properties**

Physical state

Aerosol

Colour

amber

Odour

characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	not determined		
flammability	not determined		
Lower and upper explosion limit	Upper explosion limit 10.9 Vol-%		
Lower and upper explosion limit	Lower explosion limit 0.6 Vol-%		
Flash point	not determined		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	not determined		
Viscosity	not determined		
Solubility(ies)	not determined		
Partition coefficient n-octanol/water (log value)	3.63		
Vapour pressure	210 kPa		
Density and/or relative density	0.715 g/cm ³ (20°C)		
Relative vapour density	not determined		
particle characteristics	not determined		

* **9.2 Other information**

* **Other information**

Chemical heat of combustion
 31,52 kJ/g



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*** SECTION 10: Stability and reactivity**

10.1 Reactivity

This information is not available.

*** 10.2 Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

*** 10.3 Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

*** 10.4 Conditions to avoid**

High temperatures, ignition sources, incompatible materials

10.5 Incompatible materials

This information is not available.

*** 10.6 Hazardous decomposition products**

Does not decompose when used for intended uses.

*** SECTION 11: Toxicological information**

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

*** Acute toxicity**

*** Animal data**

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	CAS No.64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic LD50: > 5000 mg/kg Species Rat		
Acute dermal toxicity	CAS No.95-63-6 1,2,4- trimethylbenzene LD50: 5 g/kg Species Rat		
Acute inhalation toxicity	CAS No.64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic LD50: > 5000 mg/kg Species Rabbit		
	CAS No.95-63-6 1,2,4- trimethylbenzene Acute inhalation toxicity (vapour) LC50: 18000 mg/m ³ Species Rat Exposure time 4 h		

*** Skin corrosion/irritation**

*** Assessment/classification**

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



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* **Serious eye damage/irritation**

* **Assessment/classification**

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

* **Sensitisation to the respiratory tract**

* **Assessment/classification**

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

* **Skin sensitisation**

* **Assessment/classification**

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

* **Germ cell mutagenicity**

* **Assessment/classification**

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

* **Carcinogenicity**

* **Assessment/classification**

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

* **Reproductive toxicity**

* **Assessment/classification**

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

* **Overall Assessment on CMR properties**

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

* **STOT-single exposure**

* **STOT SE 1 and 2**

* **Other information**

May cause drowsiness or dizziness.
May cause respiratory irritation.

* **Assessment/classification**

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

* **STOT SE 3**

* **Irritation to respiratory tract**

* **Assessment/classification**

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

* **STOT-repeated exposure**

* **Other information**

Aspiration hazard

* **Assessment/classification**

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



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* **Aspiration hazard**

* **Assessment/classification**

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

* **Symptoms related to the physical, chemical and toxicological characteristics**

* **In case of skin contact**

Has degreasing effect on the skin.

11.2 Information on other hazards

* **Other information**

Inhalation causes headache/nausea.
 Inhalation causes narcotic effect/intoxication.
 Irritates eyes and skin.
 Has a degreasing effect on the skin.

* **SECTION 12: Ecological information**

* **12.1 Toxicity**

* **Aquatic toxicity**

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	CAS No.95-63-6 1,2,4-trimethylbenzene LC50: 7.72 mg/L Species Pimephales promelas (fathead minnow) Test duration 96 h		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	CAS No.95-63-6 1,2,4-trimethylbenzene LC50 4.91 mg/L Test duration 48 h		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

* **Assessment/classification**

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

* **12.2 Persistence and degradability**

* **Assessment/classification**

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

* **12.3 Bioaccumulative potential**

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	Value	Method	Source, Remark
Bioconcentration factor (BCF)	Bioconcentration factor (BCF) 243		CAS No.95-63-6 1,2,4-trimethylbenzene Low potential for bioaccumulation.

* **12.4 Mobility in soil*** **Assessment/classification**

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

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

* **SECTION 13: Disposal considerations*** **13.1 Waste treatment methods*** **Waste codes/waste designations according to EWC/AVV**

Waste code product Waste name

160504 * gases in pressure containers (including halons) containing hazardous substances

Waste code packaging Waste name

150104 metallic packaging

* **Appropriate disposal / Product**

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Dispose of according to official regulations.

* **Remark**

Empty containers and liners may contain product residues. Do not puncture or incinerate containers.

* **SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 1950	UN 1950	UN 1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3 Transport hazard class(es)	2.1	2.1	2.1
14.4 Packing group	-	-	-
14.5 Environmental hazards	No	No	No



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14.6 Special precautions for user

Transport in closed, upright and safe containers. Advice on safe handling: see sections 6 - 8

14.7 Maritime transport in bulk according to IMO instruments

not applicable

Land transport (ADR/RID)

UN number or ID number	UN 1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Hazard label(s)	2.1
Classification code	5F
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	1 L
Special provisions	190, 327, 344, 625
Tunnel restriction code	D

Sea transport (IMDG)

UN number or ID number	UN 1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	1 L
Marine pollutant	No
EmS	F-D, S-U

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number	UN 1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	2.1
Packing group	-
Environmental hazards	No

*** SECTION 15: Regulatory information**

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

*** Other regulations (EU)**

*** To follow:**

Contains no substance listed in REACH Annex XIV.



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* **Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC**

VOC content, ready-to-use condition 67.11 %
VOC-value 480 g/L

15.2 Chemical Safety Assessment

* **National regulations**

Chemical safety assessments for substances in this mixture were not carried out.

* **SECTION 16: Other information**

* **Indication of changes**

* Data changed compared with the previous version

* **Abbreviations and acronyms**

REACH: Registration, Evaluation and Authorization of Chemicals
SU: use category
CLP: Classification, Labelling and Packaging
STOT SE 3, H336: Specific target organ toxicity (single exposure), Category 3 (narcotic effects)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
PBT: persistent and bioaccumulative and toxic
vPvB: very persistent, very bioaccumulative
SCL: Specific concentration limit
ATE: Acute Toxicity Estimate
CAS: Chemical Abstracts Service
Flam. Gas 1A: Flammable gas, Category 1A
Press. Gas (Comp.): Compressed gas (CG)
Flam. Liq. 3: Flammable Liquids, Category 3
Asp. Tox. 1: Aspiration toxicity, Category 1
Acute Tox. 4, H332: Acute Toxicity (inhalation), Category 4
Skin Irrit. 2: Skin irritation, Category 2
Eye Irrit. 2: Eye irritation, Category 2
STOT SE 3, H335: Specific target organ toxicity (single exposure), Category 3
Aquatic Chronic 2: Long-term (chronic) aquatic hazard, Category 2
CO₂: Carbon dioxide
TRGS: Technical Rules for Hazardous Substances
EU: European Union
BGW: Biological limit value (DE)
DNEL: derived no-effect level
PNEC: Predicted No Effect Concentration
DIN: German Institute for Standardization / German Industrial Standard
EN: European Standard
LD50: Lethal (fatal) Dose 50%
LC50: Lethal (fatal) Concentration 50%
BCF: Bioconcentration Factor
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID: Dangerous goods regulations for transport by rail
IMDG: International Maritime Dangerous Goods
ICAO: International Civil Aviation Organization
IATA: International Air Transport Association
DGR: Dangerous Goods Regulations (IATA)
VOC: Volatile organic compounds
WGK: water hazard class

Key literature references and sources for data

Datasheets of the manufacturer



Universal spray X73020

Print date 17.04.2023
Revision date 17.04.2023
Version 2.9 (en)
replaces version of 05.06.2020 (2.8)

* **Additional information**

National and local regulations concerning chemicals shall be observed.

This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 amending Regulation (EC) No 1907/2006.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)

H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

* **Indication of changes**

* Data changed compared with the previous version