





CHAMÄLEON GMBH RUDOLF-DIESEL-STRASSE 8A 69115 HEIDELBERG GERMANY

FON 0049 (0) 6221 - 520 440 FAX 0049 (0) 6221 - 520 449 MAIL INFO®CHAMAELEON-PRODUKTION.DE WEB WWW.CHAMAELEON-PRODUKTION.DE

SAFETY DATA SHEET

in accordance with Regulation REACH regulation (EC) n° 1907/2006 - n° 2020/878

Revision date: 26.10.2023

<u>1- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/</u> <u>UNDERTAKING</u>

Product details Trade name: Aerosol gold effect Article number: 26726 Relevant identified uses of the substance or mixture and uses advised against: Gold chrome effect enamel for "do it yourself" and professional use Sector of Use: SU 21 Consumer uses: Families = general population = consumers SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) Product category: PC9a Coatings and paints, thinners, paint removers Process category: PROC11 Non industrial spraying **Environmental release category:** ERC8a Wide dispersive indoor use of processing aids in open systems ERC8d External widespread use of manufacturing aids in open systems. Intended use: Car refinishing Product/ Paint **Manufacturer/Supplier:** Chamäleon GmbH Rudolf-Diesel-Straße, 8a, 69115 Heidelberg Germany Further information obtainable from: Product Safety Department Information in case of emergency: + 49 70024112112 (CH)

<u>2 – HAZARDS IDENTIFICATION</u>

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



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EUH066 Repeated exposure may cause skin dryness or cracking. Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H336 Specific target organ toxicity (single exposure) Aquatic Chronic 2 H411 Hazardous to the aquatic environment. The propellant gas is not taken into account when determining the health and environmental classification of the mixture.

Label elements Mixture for aerosol application. Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02 GHS07

GHS09

Signal word Danger Contain: acetone n-butyl acetate Hazard statements H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. Precautionary statements P101 If medical advice is peeded, have product container or label

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

P102 Keep out of reach of children.

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







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P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe vapours.

P271 Use only outdoors or in a well-ventilated area.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor/... if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

ъ.....

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations **Other hazards:**

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

The mixture does not contain substances> = 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.

Results of PBT and vPvB assessment:

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

<u>3– COMPOSITION/INFORMATION ON INGREDIENTS</u>

Composition:		
CAS: 68476-40-4 EC: 270-681-9	hydrocarbons, c3-c4 (propane, butane, isobutane)	>30-<40%
REACH: 01-2119486557-22	GHS02 Flam. Gas 1A, H220 Press. Gas, H280	
CAS: 67-64-1	acetone	>10-<20%
EC: 200-662-2 REACH: 01-2119475103-49	GHS07, GHS02, Dgr , Flam. Liq. 2, H225 Eye Irrit. 2, H319, STOT SE 3, H336, EUH:066	
CAS: 105-58-8	diethyl carbonate	>10-<20%
EINECS: 203-311-1	GHS02 Wng, Flam. Liq. 3, H226	
CAS: 1330-20-7	Xilene (benzene <0.01%)	>5-<10%

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EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-0000	GHS07, GHS08, GHS02, Dgr, H Asp. Tox. 1, H304, Acute Tox. 4 2, H315, Eye Irrit. 2, H319, STC STOT RE 2, H373, Aquatic Chr	4, H312, Skin Irrit. DT SE 3, H335	
CAS: 7440-66-6	powdered zinc (stabilised)		>5 <10%
EC: 231-175-3 REACH: 01-2119467174-37	GHS09, Wng, Aquatic Acute 1, 1, Aquatic Chronic 1, H410, M		
CAS: 7440-50-8 EC: 231-159-6 REACH: 01-2119480154-42	copper GHS07, GHS09, Wng Acute To Aquatic Chronic 2, H411,Aquat M Acute = 1	>2,5-<5%	
CAS: 123-86-4	n-butyl acetate		>1-<2,5%
EC: 204-658-1 REACH: 01-2119485493-29	GHS07, GHS02, Wng, Flam. Li SE 3, H336		
Specific concentration limits:		1	
CAS: 68476-40-4 EC: 270-681-9 REACH: 01-2119486557-22	hydrocarbons, c3-c4 (propane, butane, isobutane)	inhalation: ATE = (dust/mist)	= 1443 mg/l
CAS: 67-64-1 EC: 200-662-2 REACH: 01-2119475103-49	acetone	oral: ATE = 5800	mg/kg BW
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-0000	Xilene (benzene <0.01%)	inhalation: ATE = (dust/mist) oral: ATE = 5267	C
CAS: 7440-50-8 EC: 231-159-6 REACH: 01-2119480154-42	copper	inhalation: ATE = (gas) oral: ATE = 300 1	C
CAS: 123-86-4 EC: 204-658-1 REACH: 01-2119485493-29	n-butyl acetate	inhalation: ATE = 21 mg/l (dust/mist)	

<u>4– FIRST - AID MEASURE</u>

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

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Description of first aid measures

After inhalation:

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

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

After skin contact:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated aera is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

After eye contact:

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

If there is any redness, pain or visual impairment, consult an ophthalmologist.

After 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.

Most important symptoms and effects, both acute and delayed:

No data available.

<u>5– FIRE - FIGHTING MEASURE</u>

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable extinguishing agents: sprayed water or water mist, water with AFFF (Aqueous Film Forming Foam) additive, halon, foam, multipurpose ABC powder, BC powder, carbon dioxide (CO2). Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable extinguishing agents:

water jet

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).

Advice for firefighters:

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

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<u>6– ACCIDENTAL RELEASE MEASURE</u>

Personalprecautions,protectiveequipmentandemergencyprocedures:Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area. Avoid inhaling the vapors. Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For first aid worker

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

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. If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures. Use drums to dispose of collected waste in compliance with current regulations (see section 13).

Methods and material for containment and cleaning up: Clean preferably with a detergent, do not use solvents.

Reference to other sections

No data available.

7-HANDLING AND STORAGE

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

Precautions for safe handling: Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

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

Remove contaminated clothing and protective equipment before entering eating areas.

Fire prevention :

Handle in well-ventilated areas.

Vapours are heavier than air.

They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Do not spray on a naked flame or any incandescent material.

Do not pierce or burn, even after use.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames. Do not use tools which may produce sparks.

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Do not smoke.

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.

Avoid inhaling vapors.

Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Avoid skin and eye contact with this mixture.

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.

Never open the packages under pressure.

Conditions for safe storage, including any incompatibilities:

No data available.

Storage:

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

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. **Packaging**

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

Specific end use(s):

No data available.

<u>8 – EXPOSURE CONTROLS / PERSONAL PROTECTION</u>

Control parameters

Occupational exposure limits :

European Union (2022/431, 2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE):

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
67-64-1	1210	500	-	-	-
1330-20-7	221	50	442	100	Peau

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123-86-4	241	50	723	150		
Germany - AGW (BAuA - TRGS 900, 02/2022) :						

CAS	VME :	VME :	Excess	Notes
67-64-1		500 ppm		2(I)
		1200 mg/m3		
1330-20-7		50 ppm		2(II)
		220 mg/m3		
123-86-4		62 ppm		2 (I)
		300 mg/m3		

Belgium (Royal decree of 11/05/2021) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
67-64-1	246 ppm	492 ppm			
	594 mg/m3	1187 mg/m3			
1330-20-7	50 ppm 221 mg/m3	100 ppm 442 mg/m3		D	
7440-50-8	1 mg/m3	-	-	-	-
123-86-4	50 ppm 238 mg/m3	150 ppm 712 mg/m3			

Denmark (2020) :

Stof	TWA	VSTEL	Loftvaerdi	Anm
67-64-1	250 ppm			Е
	600 mg/m3			
1330-20-7	25 ppm			EH
	109 mg/m3			
7440-50-8	-	1 mg/m3	-	
123-86-4	150 ppm			
	710 mg/m3			

France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

84	
* 4 Bis. 84	4. *
84	
	4 Bis. 84 84

Spain (Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), 2019) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
67-64-1	500 ppm			VLB. VLI	
	1.21 mg/m3				
1330-20-7	50 ppm	100 ppm		via dermica.	
	221 mg/m3	442 mg/m3		VLB.vu	
7440-50-8	0.2 mg/m3	-	-	-	-
123-86-4	50 ppm	150 ppm		VLI	

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1330-20-7



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	241 mg/m3	723 mg/m3			
Italy (Decree, 26/02/20	004):				
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
67-64-1	500 ppm				
	1210 mg/m3				

100 ppm

 221 mg/m3
 442 mg/m3

 Luxembourg (RGD 14/11/2016, Memorial A n°247 du 8 mars 2017) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
67-64-1	500 ppm 1210 mg/m3				
1330-20-7	50 ppm 221 mg/m3	100 ppm 442 mg/m3		Peau	

Netherlands / MAC-waarde (10 december 2014) :

50 ppm

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
67-64-1	500 ppm	1 ppm			
	1.21 mg/m3	2.42 mg/m3			
1330-20-7	47.5 ppm	100 ppm		Н	
	210 mg/m3	442 mg/m3			
7440-50-8	0.2 mg/m3	-	-	-	-
123-86-4	50 ppm	150 ppm			
	241 mg/m3	723 mg/m3			

Poland (Dz. U. z 2018 r. poz. 917, 1000 i 1076) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
67-64-1	600 mg/m3	1800 mg/m3			
1330-20-7	100 mg/m3	200 mg/m3		skóra	
7440-50-8	0.2 mg/m3				
123-86-4	240 mg/m3	720 mg/m3			

Portugal (1.a N° 26 - 06/01/2012) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
67-64-1	500 ppm				
	1 210 mg/m3				
1330-20-7	50 ppm	100 ppm		Cutânea	
	221 mg/m3	442 mg/m3			

Switzerland (Suva 2021) :

CAS	VME	VLE	Valeur plafond	Notations
67-64-1	500 ppm	1000 ppm		
	1200 mg/m3	2400 mg/m3		
1330-20-7	100 ppm	200 ppm		

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	435 mg/m3		870 mg/m3			
7440-50-8	0.1 ppm		0.2 ppm			
123-86-4	50 ppm		150 ppm			
	240 mg/m3		720 mg/m3			
Sweden (AFS 2018 :1):		• • • • • •			
CAS	TWA :	STEL	:	Ceiling :	Definition :	Criteria :
67-64-1	250 ppm	500 pj	om		V	
	600 mg/m3	1200 1	mg/m3			
1330-20-7	50 ppm	100 pj	om		Н	
	221 mg/m3	442 m	ig/m3			
7440-50-8	0.01 mg/m3					
123-86-4	50 ppm	150 pj	om			
	241 mg/m3	723 m	ig/m3			
Romania (Hotarâre 12	18/2006) :					
CAS	TWA :	STEL	:	Ceiling :	Definition :	Criteria :
67-64-1	500 ppm					
	1210 mg/m3					
105-58-8	145 ppm	145 ppm 207 ppm				
	700 mg/m3	1000 mg/m3				
1330-20-7	50 ppm	100 pj				
	221 mg/m3	442 m	ng/m3			
7440-50-8	0.5 mg/m3	1.5 mg	g/m3			
123-86-4	150 ppm	200 pj	om			
	715 mg/m3	950 m	ig/m3			
UK / WEL (Workplac	e exposure limits,	, EH40/	2005, Fourth	Edition 2020)):	
CAS	TWA :	STEL :		Ceiling :	Definition :	Criteria :
67-64-1	500 ppm	00 ppm 1500 ppm				
	1210 mg/m3	3620 mg/m3				
1330-20-7	50 ppm	100 ppm			Sk. BMGV	
	220 mg/m3	441 mg/m3				
7440-50-8	0.2 mg/m3	-		-	-	-
123-86-4	150 ppm	<u> </u>				
	724 mg/m3	966 mg/m3				

Derived no effect level (DNEL) or derived minimum effect level (DMEL): N-Butyl Acetate (Cas: 123-86-4)

Final use:	Workers.
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	480 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.

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DNEL : Final use: Exposure method: Potential health effects: DNEL : 960 mg of substance/m3 Consumers. Inhalation. Long term local effects. 102 mg of substance/m3

Xilene (Benzene <0.01%) (Cas: 1330-20-7)

Workers. Final use: Exposure method: Inhalation. Potential health effects: Short term local effects. DNEL : 289 mg of substance/m3 Exposure method: Inhalation. Potential health effects: Long term local effects. DNEL: 77 mg of substance/m3 Final use: Consumers. Exposure method: Inhalation. Potential health effects: Long term local effects. DNEL : 14.8 mg of substance/m3

Diethyl Carbonate (Cas: 105-58-8)

Final use:Workers.Exposure method:Dermal contact.Potential health effects:Long term systemic effects.DNEL :0,027 mg/kg body weight/dayExposure method:Inhalation.Potential health effects:Long term systemic effects.DNEL :0,2 mg of substance/m3

Acetone (Cas: 67-64-1)

Final use:Workers.Exposure method:InhalationPotential health effects:Long termDNEL :1210 mgExposure method:InhalationPotential health effects:Short termDNEL :2400 mgFinal use:ConsumeExposure method:Dermal cPotential health effects:Long termDNEL :62 mg/kgExposure method:Dermal cPotential health effects:Long termDNEL :62 mg/kgExposure method:Dermal cDNEL :Long termDNEL :186 mg/k

Workers. Inhalation. Long term local effects. 1210 mg of substance/m3 Inhalation. Short term local effects. 2400 mg of substance/m3 Consumers. Dermal contact. Long term local effects. 62 mg/kg body weight/day Dermal contact. Long term local effects. 186 mg/kg body weight/day



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Exposure method:Inhalation.Potential health effects:Long term local effects.DNEL :200 mg of substance/m3

Predicted no effect concentration (PNEC): Acetone (Cas: 67-64-1)

Environmental compartment:	Soil.
PNEC :	33.3 mg/kg
Environmental compartment:	Fresh water.
PNEC :	10.6 mg/l
Environmental compartment:	Sea water.
PNEC :	1.06 mg/l
Environmental compartment:	Intermittent waste water.
PNEC :	21 mg/l
Environmental compartment:	Fresh water sediment.
PNEC :	30.4 mg/l
Environmental compartment:	Marine sediment.
PNEC :	3.04 mg/l
Environmental compartment:	Waste water treatment plant.
PNEC :	100 mg/l

Exposure controls:

Personal protection measures, such as personal protective equipment

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 with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.







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Type of gloves recommended : PVA (Polyvinyl alcohol)

Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing : In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

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.

Respiratory protection

Avoid inhaling vapors.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Type of FFP mask : Wear a disposable half-mask aerosol filter in accordance with standard EN149/A1. Category : FFP1

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 : A1 (Brown) Particle filter according to standard EN143 : P1 (White)

<u>9 – PHYSICAL AND CHEMICAL PROPERTIES</u>

Information on basic physical and chemical properties

uid liquid.
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efied gas
on
ot stated.
ot specified.
ot stated.
d boiling range
0 °C







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Flammability	
Flammability (solid, gas) :	Estremamente infiammabile
Lower and upper explosion limit	
Explosive properties, lower explos	
	sivity limit (%) 15,0 Vol % (UEL):
Flash point	
Flash point interval :	Not relevant.
Auto-ignition temperature	
Self-ignition temperature :	Not specified.
Decomposition temperature	
Decomposition point/decomposition	on range : Not specified.
рН	
pH :	Not stated.
Neutral.	
pH (aqueous solution) :	Not stated. Not applicable due to the nature of the product.
Kinematic viscosity	
Viscosity :	Not stated.
Solubility	
Water solubility :	Insoluble.
Fat solubility :	Not stated.
Partition coefficient n-octanol/wa	ater (log value)
Partition coefficient: n-octanol/war	ter: Not stated.
Vapour pressure	
Vapour pressure $(50^{\circ}C)$:	Above 300 kPa (3 bar). 4,0 +/- 0,2 Bar a 20C
Density and/or relative density	
Density :	0,74 +/- 0,01 g/cm³ a 20 °C
Relative vapour density	
Vapour density :	Not stated.
Particle characteristics	
The mixture does not contain nano	oforms.
Other information	
% VOC :	530 g/l
Information with regard to phys	ical hazard classes
No data available.	
Aerosols	
Chemical combustion heat :	Not specified.
Inflammation time :	Not specified.
Deflagration density :	Not specified.
Inflammation distance :	Not specified.
Flame height :	Not specified.
Flame duration :	Not specified.
Other safety characteristics	-
No data available.	

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- <u>10– STABILITY AND REACTIVITY</u>

Reactivity

No dangerous reaction if properly used and stored.

Chemical stability

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

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.

Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

- Avoid :
- heating
- heat

Incompatible materials

Keep away from oxidant, strong acid and strong alkali, in order to avoid corrosion of steel containers. **Hazardous decomposition products**

The thermal decomposition may release/form :

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

<u>11– TOXILOGICAL INFORMATION</u>

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

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days. Splashes in the eyes may cause irritation and reversible damage. Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness. Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

Substances

Acute toxicity :

hydrocarbons, c3-c4 (propane, butane, isobutane) (cas: 68476-40-4)		
Inhalative	LC50	1443 mg/m3 (rats)





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n-butyl aceta	ate (cas: 123-86-	4)	
Oral	LD50	> 6400 mg/kg bodyweight/day(rats)	
Dermal	LD50	> 5000 mg/kg bodyweight/day (rabbits)	
Inhalative	LC50	21 mg/l (rats)	
copper (cas:	7440-50-8)		
Oral	LD50	300 mg/kg bodyweight/day(rats)	
Dermal	LD50	> 2000 mg/kg bodyweight/day(rats)	
Inhalative	LC50	9 mg/l (rats)	
powdered zi	nc (stabilised) (c	cas: 7440-66-6)	
Oral	LD50	>= 2000 mg/kg bodyweight/day(rats)	
Inhalative	LC50	>= 5.4 mg/l (rats)	
xilene (benz	ene <0.01%) (ca	s: 1330-20-7)	
Oral	LD50	5267 mg/kg bodyweight/day (rats)	
Dermal	LD50	> 5000 mg/kg bodyweight/day (rabbits)	
Inhalative	LC50	20 mg/l (rats)	
diethyl carbo	onate (cas: 105-5	58-8)	
Oral	LD50	> 15000 mg/kg bodyweight/day (rats)	
Inhalative	LC50	> 1268 mg/m3 (rats)	
acetone (cas	: 67-64-1)		
Oral	LD50	5800 mg/kg bodyweight/day (rats)	
Dermal	LD50	> 20000 mg/kg bodyweight/day (rabbits)	
Inhalative	LC50	50	

Mixture

No toxicological data available for the mixture.

Information on other hazards

No data available

<u>12 – ECOLOGICAL INFORMATION</u>

Toxic to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways.

Toxicity

Substances

copper (cas: 7440-50-8)







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Crustacean toxicity :	EC50 > 2000 mg/l Species : Others Duration of exposure : 48 h
n-butyl acetate (cas: 12	23-86-4)
Fish toxicity :	LC50 = 18 mg/l Species : Pimephales promelas Duration of exposure : 96 h
Crustacean toxicity :	EC50 44 mg/l Species : Daphnia magna Duration of exposure : 48 h
Algae toxicity :	Species : Pseudokirchnerella subcapitata
xilene (benzene <0.019	%) (cas: 1330-20-7)
Fish toxicity :	LC50 = 2.6 mg/l Species : Oncorhynchus mykiss
Crustacean toxicity :	EC50 = 1 mg/l Species : Daphnia magna Duration of exposure : 24 h
Algae toxicity :	ECr50 = 4.36 mg/l Species : Pseudokirchnerella subcapitata Duration of exposure : 72 h
diethyl carbonate (cas:	
Fish toxicity :	LC50 > 100 mg/l Species : Danio rerio Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 100 mg/l Duration of exposure : 48 h
Algae toxicity :	ECr50 > 100 mg/l Species : Desmodesmus subspicatus Duration of exposure : 72 h
acetone (cas: 67-64-1)	
Fish toxicity :	LC50 = 302 mg/l Species : Others Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 4042 mg/l Species : Daphnia pulex Duration of exposure : 48 h
Algae toxicity :	ECr50 = 1680 mg/l Species : Others Duration of exposure : 48 h

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	hydrocarbons, c3-c4 (propane, butane, isobutane) (cas: 68476-40-4)		
Fish toxicity : $LC50 = 24.11 \text{ mg/l}$ Duration of exposure : 96 h		e	
	Crustacean toxicity :	EC50 = 14.22 mg/l Duration of exposure : 48 h	

Mixtures

No aquatic toxicity data available for the mixture.

Persistence and degradability

Substances

n-butyl acetate (cas: 12	3-86-4)
Biodegradability:	no degradability data is available, the substance is considered as not degrading quickly.
copper (cas: 7440-50-8)
Biodegradability :	Rapidly degradable.
powdered zinc (stabilis	ed) (cas: 7440-66-6)
Biodegradability :	no degradability data is available, the substance is considered as not degrading quickly.
xilene (benzene <0.01%	%) (cas: 1330-20-7)
Biodegradability :	no degradability data is available, the substance is considered as not degrading quickly.
diethyl carbonate (cas:	105-58-8)
Biodegradability :	no degradability data is available, the substance is considered as not degrading quickly.
acetone (cas: 67-64-1)	
Biodegradability :	no degradability data is available, the substance is considered as not degrading quickly.
hydrocarbons, c3-c4 (p	ropane, butane, isobutane) (cas: 68476-40-4)
Biodegradability :	no degradability data is available, the substance is considered as not degrading quickly.

Bioaccumulative potential No data available. Mobility in soil No data available. Results of PBT and vPvB assessment According to Annex XIII of Regulation (EC) 1907/2006 concerning the Registration, Evaluation,

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 Restriction of chemicals ubstances (see section 3 and 2): does not meet the criteria for classification as PBT and vPvB therefore – not applicable.U se according to good working practices, avoiding to disperse the product into the environment.

Endocrine disrupting properties

The solvents and propellant contained do not have an endocrine disrupting property **Other adverse effects**

The solvents and propellant contained have a low level of photochemical ozone creation potential.

<u>13– DISPOSAL CONSIDERATION</u>

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

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, via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container. Give to a certified disposal contractor. Packaging waste code: Cartons code: CER 15.01.01 Caps plastic packaging code: CER 15.01.02 EWC waste code referring to emptied spray cans: 15 01 10* Rejection hazard characteristics: HP3 = Flammable. HP4 = Irritant

<u>14– TRANSPORT INFORMATION</u>

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2022 [41-22] - ICAO/IATA 2023 [64]). **UN-Number or ID number** ADR, IMDG, IATA UN1950

UN proper shipping name ADR

UN1950 AEROSOLS, flammable

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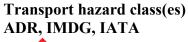
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IMDG IATA

UN1950 AEROSOLS, flammable UN1950 AEROSOLS, flammable

not required





Class	2.1
Label	2.1

Packing group ADR, IMDG, IATA

Environmental hazards: Environmentally hazardous material Special precautions for user **ADR/RID** Class 2 Code 5F Pack gr.-Label 2.1 Ident. LQ - 1 L Provis. 190 327 344 625 EQ E0 Cat. 2 Tunnel D **IMDG** Class 2 Label See SP63 Pack gr. -LQ See SP277 EMS F-D. S-U Provis. 63 190 277 E0 327 344 381 959 EQ E0 Stowage Handling SW1 SW22 Segregation SG69

IATA

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```
Class 2.1
     2.1
Label
      _
Pack gr.
     _
Passager
203 75 kg
Y203 30 kg G
Cargo
203
Cargo
150 kg
note
A145 A167 E0 A802
A145 A167 E0 A802
EO
E0
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.
Marine pollutant (IMDG 3.1.2.9):(copper)
```

Maritime transport in bulk according to IMO instruments

No data available.

<u>15 – REGULATORY INFORMATION</u>

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):



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https://echa.europa.eu/substances-restricted-under-reach.

Explosives precursors :

The mixture contains at least one substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors: Acetone (CAS 67-64-1)

The acquisition, introduction, possession or use of this restricted explosive precursor by members of the general public is subject to the reporting obligations.

Particular provisions :

No data available.

Chemical safety assessment

The exposure scenarios of the substances leading to the classification of the mixture are available. A chemical safety assessment has not been carried out.

<u>16-OTHER INFORMATION</u>

Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure .
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms:

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





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DNEL : Derived No-Effect Level PNEC : Predicted No-Effect Concentration STEL : Short-term exposure limit TWA : Time Weighted Averages TMP : French Occupational Illness table 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. GHS02 : Flame GHS07 : Exclamation mark **GHS09** : Environment PBT: Persistent, bioaccumulable and toxic. vPvB : Very persistent, very bioaccumulable. SVHC : Substances of very high concern. ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) (=COV) NOEC: No Observed Effect Concentration (REACH) PEL: Permissible Exposure Limit TLV: Theshold Limit Value CLP: Classification, Labelling and Packaging ACGIH: American Conference of Governmental Industrial Hygienists STEL/C: Short-Term Exposure Limit/Ceiling LEL: Lower Explosive Limit **UEL: Upper Explosive Limit** BW: Body weight NOAEL: No Observed Adverse Effects Level RoHS: Restriction on the use of Hazardous Substances. RTECS : Registry of Toxic Effects of Chemical Substances. NOAEC : No Observed Adverse Effects Concentration CER : Catalogo Europeo Rifiuti.

The information contained in these sheets is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects and should not be construed as any guarantee of technical performance or suitability for particular applications.