



Trade name: Marabu do it High Gloss 484, 150 ml

Version: 9 / GB

Date revised: 15.08.2023

Substance number: 21073006484

Replaces Version: 8 / GB

Print date: 15.11.2024

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

1.1. Product identifier

Marabu do it High Gloss 484, 150 ml

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

Use of the substance/preparation

Colour spray

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Marabu GmbH & Co. KG

Asperger Strasse 4

71732 Tamm

Deutschland

Telephone no. +49-7141/691-0

Information provided by / telephone Department product safety

E-mail address of person responsible for this SDS PRSI@marabu.com

Information provided by / telephone Department product safety

E-mail address of person responsible for this SDS PRSI@marabu.com

1.4. Emergency telephone number

(+49) (0)621-60-43333

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

H229	Aerosol 1	H222
	Eye Irrit. 2	H319
	STOT SE 3	H336
	Aquatic Chronic 2	H411

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms ***

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Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurized 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.

Precautionary statements

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.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P264.1 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501.9 Dispose of contents/container as problematic waste.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Acetone; Ethyl acetate; n-Butyl acetate; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

Further supplemental information

Without adequate ventilation, explosive atmosphere/gas mix may be created.

2.3. Other hazards

Pressurized container. At temperatures above 50 °C, deformation and explosion possible, resulting in serious physical injury. Vapours are heavier than air and may therefore form flammable and explosive mixtures with air, even at temperatures below 0 °C. Use in inadequately ventilated areas. Environments may cause breathing problems, drowsiness and, in severe cases, unconsciousness.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Hazardous ingredients

Acetone

CAS No. 67-64-1
 EINECS no. 200-662-2
 Registration no. 01-2119471330-49
 Concentration >= 10 < 20 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 2 H225
 Eye Irrit. 2 H319
 STOT SE 3 H336

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

CAS No. 64742-48-9
 EINECS no. 919-857-5
 Registration no. 01-2119463258-33
 Concentration >= 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 3 H226
 Asp. Tox. 1 H304
 STOT SE 3 H336

Xylene

CAS No. 1330-20-7
 EINECS no. 215-535-7
 Registration no. 01-2119488216-32/01-2119486136-34
 Concentration >= 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Flam. Liq. 3 H226
 Acute Tox. 4 H332
 Acute Tox. 4 H312
 Eye Irrit. 2 H319
 STOT SE 3 H335
 STOT RE 2 H373
 Asp. Tox. 1 H304
 Aquatic Chronic 3 H412

cATpE inhalative, Dust/Mist 1,5 mg/l

Ethyl acetate

CAS No. 141-78-6
 EINECS no. 205-500-4
 Registration no. 01-2119475103-46
 Concentration >= 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 2 H225
 Eye Irrit. 2 H319
 STOT SE 3 H336



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n-Butyl acetate

CAS No. 123-86-4
 EINECS no. 204-658-1
 Registration no. 01-2119485493-29
 Concentration >= 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 3 H226
 STOT SE 3 H336

Copper

CAS No. 7440-50-8
 EINECS no. 231-159-6
 Registration no. 01-2119480154-42
 Concentration >= 2,5 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Aquatic Acute 1 H400
 Aquatic Chronic 2 H411

Concentration limits (Regulation (EC) No. 1272/2008)
 Aquatic Acute 1 H400 M = 1

cATpE oral 500 mg/kg

Zinc powder - Zinc dust

CAS No. 7440-66-6
 EINECS no. 231-175-3
 Registration no. 01-2119467174-37
 Concentration >= 2,5 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

After inhalation

Remove affected person from danger area. Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Summon a doctor immediately.

After skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. Take medical treatment.



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After ingestion

As the product is in a pressurised gas container, ingestion is not expected. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. Summon a doctor immediately.

Adhere to personal protective measures when giving first aid

Use personal protective equipment in case of possible contact with the product (see section 8).

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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further symptoms are possible.

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

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Aalcohol resistant foam, CO₂, powders, water spray/mist

Non suitable extinguishing media

water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); dense black smoke; Metal oxide dust; Exposure to decomposition products may cause a health hazard.

Appropriate breathing apparatus may be required.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear full chemical protective clothing. Fire fighter's clothing must conform to European standard EN469.

Other information

Cool endangered containers with water spray jet. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Keep away sources of ignition. Remove persons to safety. Ensure adequate ventilation. Keep away unprotected persons. Avoid contact with skin, eyes and clothing. Do not breathe gas/fumes/vapour/spray. For emergency responders: Wear personal protective equipment. Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up



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Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).
Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Provide good ventilation of working area (local exhaust ventilation if necessary). In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame. Avoid skin and eye contact. Avoid the inhalation of particulates and spray mist arising from the application of this mixture. Smoking, eating and drinking shall be prohibited in application area. For personal protection see Section 8. Comply with the health and safety at work laws. Do not allow to enter drains or water courses.

Advice on protection against fire and explosion

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking. Take action to prevent static discharges. Do not spray on a naked flame or any incandescent material. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. With conveying and handling possibility of electrostatic charges.

Classification of fires / temperature class / Ignition group / Dust explosion class

Classification of fires	C (Flammable gases)
Temperature class	T2

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with national regulation

Further information on storage conditions

Observe label precautions. Keep in original containers. Keep container dry in a cool, well-ventilated place. Protect from direct sunlight. Protect from warmth. Keep away from sources of ignition. No smoking. Prevent unauthorised access.

7.3. Specific end use(s)

Colour spray

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Acetone

List	EH40
Type	WEL

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Value	1210	mg/m ³	500	ppm(V)
Short term exposure limit	3620	mg/m ³	1500	ppm(V)
Status:	2011			

Acetone

List	EU			
Value	1210	mg/m ³	500	ppm(V)
Remarks:	2000/39/EG			

Ethyl acetate

List	EH40			
Type	WEL			
Value	200	ppm(V)		
Short term exposure limit	400	ppm(V)		
Status:	2011			

Ethyl acetate

List	EU			
Value	734	mg/m ³	200	ppm(V)
Short term exposure limit	1468	mg/m ³	400	ppm(V)
Remarks:	(EU) 2017/164			

Xylene

List	EH40			
Type	WEL			
Value	220	mg/m ³	50	ppm(V)
Short term exposure limit	441	mg/m ³	100	ppm(V)
Skin resorption / sensibilisation:	Sk2005			

Xylene

List	EU			
Value	221	mg/m ³	50	ppm(V)
Short term exposure limit	442	mg/m ³	100	ppm(V)
Skin resorption / sensibilisation:	SkinRemarks: 2000/39/EG			

n-Butyl acetate

List	EH40			
Type	WEL			
Value	724	mg/m ³	150	ppm(V)
Short term exposure limit	966	mg/m ³	200	ppm(V)
Status:	2011			

n-Butyl acetate

List	EU			
Value	241	mg/m ³	50	ppm(V)
Short term exposure limit	723	mg/m ³	150	ppm(V)
Remarks:	(EU) 2019/1831			

Ethyl benzene

List	EH40			
Type	WEL			
Value	441	mg/m ³	100	ppm(V)
Short term exposure limit	552	mg/m ³	125	ppm(V)
Skin resorption / sensibilisation:	Sk2011			

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Ethyl benzene

List	EU			
Value	442	mg/m ³	100	ppm(V)
Short term exposure limit	884	mg/m ³	200	ppm(V)
Skin resorption / sensibilisation: SkinRemarks: 2000/39/EG				

Derived No/Minimal Effect Levels (DNEL/DMEL)**Acetone**

Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			
Duration of exposure	Long term			
Route of exposure	dermal			
Concentration	186		mg/kg/d	

Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			
Duration of exposure	Short term			
Route of exposure	inhalative			
Concentration	2420		mg/m ³	

Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			
Duration of exposure	Long term			
Route of exposure	inhalative			
Concentration	1210		mg/m ³	

Type of value	Derived No Effect Level (DNEL)			
Reference group	Consumer			
Duration of exposure	Long term			
Route of exposure	oral			
Concentration	62		mg/kg/d	

Type of value	Derived No Effect Level (DNEL)			
Reference group	Consumer			
Duration of exposure	Long term			
Concentration	62		mg/kg/d	

Type of value	Derived No Effect Level (DNEL)			
Reference group	Consumer			
Duration of exposure	Long term			
Route of exposure	inhalative			
Concentration	200		mg/m ³	

Ethyl acetate

Type of value	Derived No Effect Level (DNEL)			
Reference group	Worker			
Duration of exposure	Acute			
Route of exposure	inhalative			

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Concentration 1468 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Acute

Route of exposure inhalative

Mode of action Local effects

Concentration 1468 g/m³

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Route of exposure dermal

Mode of action Chronic effects

Concentration 63 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Route of exposure inhalative

Mode of action Chronic effects

Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Route of exposure inhalative

Mode of action Chronic effects

Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Route of exposure inhalative

Mode of action Acute effects

Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Route of exposure inhalative

Mode of action Local effects

Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Route of exposure dermal

Mode of action Chronic effects

Concentration 37 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Route of exposure inhalative

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Mode of action Chronic effects
 Concentration 367 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure oral
 Mode of action Chronic effects
 Concentration 4,5 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 367 mg/m³

Xylene

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 221 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Short term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 442 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 221 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Short term
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 442 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure dermal

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Mode of action	Systemic effects	
Concentration	212	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	65,3	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	260	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	65,3	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	260	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	125	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	12,5	mg/kg/d

n-Butyl acetate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	

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Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	600	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	600	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	300	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	300	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	300	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	300	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	35,7	mg/m ³
Type of value	Derived No Effect Level (DNEL)	

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Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	35,7	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	11	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	11	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	6	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	6	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	2	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	2	mg/kg/d



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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 1500 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 300 mg/kg/d

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 900 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 300 mg/kg/d

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure oral
 Mode of action Systemic effects
 Concentration 300 mg/kg/d

Zinc powder - Zinc dust

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 5 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure dermal

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Mode of action Systemic effects
 Concentration 83 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure oral
 Mode of action Systemic effects
 Concentration 0,83 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 83 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 2,5 mg/m³

Copper

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Short term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 273 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Short term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 20 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 137 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer

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Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	273	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	20	mg/m ³

Predicted No Effect Concentration (PNEC)**Acetone**

Type of value	PNEC	
Type	Freshwater	
Concentration	10,6	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	1,06	mg/l

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	21	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	30,4	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Concentration	3,04	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	29,5	mg/kg

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l

Ethyl acetate

Type of value	PNEC	
Type	Water	
Concentration	0,26	mg/l

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Type of value	PNEC	
Type	Aquatic	
Concentration	0,026	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,34	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,034	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,22	mg/kg
Xylene		
Type of value	PNEC	
Type	Freshwater	
Concentration	0,327	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,327	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	12,46	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	12,46	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	2,31	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	6,58	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,327	mg/l

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n-Butyl acetate

Type of value	PNEC	
Type	Freshwater	
Concentration	0,18	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,018	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,981	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,0981	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,0903	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	35,6	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,36	mg/l

Zinc powder - Zinc dust

Type of value	PNEC	
Type	Freshwater	
Concentration	0,0206	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	117,8	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	0,0061	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	0,052	mg/l



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Type of value	PNEC	
Type	Soil	
Concentration	35,6	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	56,5	mg/kg
Copper		
Type of value	PNEC	
Type	Soil	
Concentration	65,5	mg/kg
Type of value	PNEC	
Type	Freshwater	
Concentration	0,0078	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	87	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	0,0052	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	676	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	0,230	mg/l

8.2. Exposure controls

Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

General protective and hygiene measures

Observe the usual precautions for handling chemicals. Keep away from food, drink and animal feedingstuffs. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Wash hands and / or face before breaks and after work. Take off dirty, soaked clothes immediately. Wash soiled clothing before re-use. Store work clothing separately.

Respiratory protection

If workers could be exposed to concentrations above the exposure limit they should use a respirator to EN 140, fitted with a filter suitable for both particulates and vapours, to EN 14387, with an assigned protection



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factor of at least 10 (e.g. A2P3) Selection of any respiratory protective equipment should ensure that it is adequate to reduce exposure to protect the worker's health and is suitable for the wearer, task and environment, including consideration of the facial features of the wearer.

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

Use gloves tested according to EN ISO 374.

For prolonged or repeated handling, use

Appropriate Material	Butyl rubber		
Material thickness	> 0,7	mm	
Breakthrough time	> 30	min	

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection

Use safety eyewear tested according to EN ISO 16321-1 designed to protect against splash of liquids.

Body protection

Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre. Cotton or cotton/synthetic overalls or coveralls are normally suitable.

Environmental exposure controls

Do not allow to enter drains or water courses. If the legally prescribed emission limits are exceeded, a suitable exhaust air purification system must be installed.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Aerosol		
Colour	gold coloured		
Odour	solvent-like		
Melting point			
Remarks	Not applicable due to nature of the product		
Freezing point			
Remarks	Not applicable due to nature of the product		
Boiling point or initial boiling point and boiling range			
Reference substance	Acetone		
Value	appr. 56		°C
Pressure	1.013	hPa	
Source	Literature value		

Flammability

Extremely flammable aerosol.



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Upper and lower explosive limits

Reference substance	Xylene	
Lower explosion limit	appr. 0,8	%(V)
Reference substance	n-Butyl acetate	
Upper explosion limit	appr. 15	%(V)
Source	Literature value	

Flash point

Value	< 0	°C
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Auto-ignition temperature

Value	appr. 415	°C
Source	Literature value	

Decomposition temperature

Remarks	not determined
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pH value

Remarks	Not applicable
Remarks	substance/mixture is non-soluble (in water)

Viscosity

Remarks	
Remarks	not determined

Solubility(ies)

Remarks	Not applicable due to nature of the product
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Partition coefficient n-octanol/water (log value)

Remarks	Not applicable due to nature of the product
---------	---------------------------------------------

Vapour pressure

Remarks	Not applicable due to nature of the product
---------	---------------------------------------------

Density and/or relative density

Value	0,75	g/cm ³
Temperature	20	°C

Relative vapour density

Value	> 1
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Particle characteristics

Remarks	Not applicable due to nature of the product
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9.2. Other information

Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

Stable at temperatures below 50 °C.



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10.3. Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4. Conditions to avoid

Protect from heat and direct sunlight. When exposed to high temperatures may produce hazardous decomposition products. Avoid damage to the aerosol containers, for example by falling down. Never pierce aerosol containers, even after use. Avoid high concentrations of solvent vapours. Observe the notes on ventilation (section 8).

10.5. Incompatible materials

Oxidising agents, strongly alkaline substances, Strongly acidic substances

10.6. Hazardous decomposition products

See chapter 5.2 (Firefighting measures - Special hazards arising from the substance or mixture). No decomposition during intended use (see section 1).

SECTION 11: Toxicological information

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

Acute oral toxicity

ATE	>	2.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute oral toxicity (Components)

Acetone

Species	rat		
LD50	5800		mg/kg

n-Butyl acetate

Species	rat (female)		
LD50	10760		mg/kg
Method	OECD 423		

Zinc powder - Zinc dust

Species	rat		
LD50	>	2000	mg/kg

Acute dermal toxicity

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

Acute dermal toxicity (Components)

Acetone

Species	rabbit		
LD50	20000		mg/kg

Xylene

Species	rabbit		
LD50	>	4200	mg/kg

n-Butyl acetate

Species	Rats (male/female)		
LD50	14112		mg/kg
Method	OECD 402		



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Acute inhalational toxicity

ATE > 5 mg/l
 Administration/Form Dust/Mist
 Method calculated value (Regulation (EC) No. 1272/2008)
 Remarks Based on available data, the classification criteria are not met.

Acute inhalative toxicity (Components)

Xylene

Species rat
 LC50 > 29 mg/l
 Duration of exposure 4 h
 Administration/Form Vapors

n-Butyl acetate

Species Rats (male/female)
 LC50 > 21 mg/l
 Duration of exposure 4 h
 Method OECD 403

Zinc powder - Zinc dust

Species rat
 LC50 5,41 mg/l
 Duration of exposure 4 h
 Administration/Form Dust/Mist

Skin corrosion/irritation

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

Serious eye damage/irritation

evaluation irritant
 Remarks The classification criteria are met.

Sensitization

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

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks The classification criteria are met.
 evaluation May cause drowsiness or dizziness.

Repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards



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Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Exposure to component solvents vapours concentration 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 Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation. Ingestion may cause nausea, diarrhoea and vomiting.

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and classified for toxicological hazards accordingly.

SECTION 12: Ecological information

12.1. Toxicity

General information

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

12.2. Persistence and degradability

General information

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

General information

There are no data available on the mixture itself.

Partition coefficient n-octanol/water (log value)

Remarks Not applicable due to nature of the product

12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

General information

There are no data available on the mixture itself.

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties



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Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Do not allow to enter drains or water courses.

Wastes and emptied containers should be classified in accordance with relevant national regulation.

The European Waste Catalogue classification of this product, when disposed of as waste is

EWC waste code 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information contact your local waste authority.

Disposal recommendations for packaging

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Not emptied containers are hazardous waste.

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

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)	2	2.1	2.1
Label			
Limited Quantity	1 l	1 l	
Transport category	2		
14.5. Environmental hazards	-		



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Tunnel restriction code	D		
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Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information ***

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

VOC ***

VOC (EU)	77,7	%
VOC (EU)	582,8	g/l

Other regulations, restrictions and prohibition regulations

The product complies with the requirements of the Persistent Organic Pollutants Regulation 2019/1021.

The product complies with the requirements of Regulation 2024/590 on substances that deplete the ozone layer.

The product is not subject to Regulation 649/2012 on the export and import of dangerous chemicals.

Other information

The product does not contain substances of very high concern (SVHC).

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurized container: may burst 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.
H332	Harmful if inhaled.
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.



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H411

Toxic to aquatic life with long lasting effects.

H412

Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Skin Irrit. 2	Skin irritation, Category 2
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
GGVSee: Gefahrgutverordnung See
IMDG: International Maritime Code for Dangerous Goods
ICAO: International Civil Aviation Organization
IATA: International Air Transport Association
CAS: Chemical Abstracts Service
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
EmS: Emergency Schedules
AICS: Australian Inventory of Chemical Substances
MITI: Ministry of International Trade and Industry (Japan)
TSCA: Toxic Substances Control Act (USA)
VOC: Volatile Organic Compound
LD: Lethal dose
LC: Lethal concentration
SVHC: Substances of very high concern
DNEL: Derived no effect level
PNEC: Predicted no effect concentration
UN: United Nations
OEL: Occupational exposure limit

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.
The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible

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for ensuring that the requirements of relevant legislation are complied with.
The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.