

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Date of compilation: 2019-12-12

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

1.1 Product identifier

Trade name
Article number

MARKING SPRAY - 500 ml

4000 354080 (rot/rouge/rood/czerwony)
4000 354081 (blau/bleu/blauw/niebieski)
4000 354082 (grün/vert/groen/zielony)
4000 354083 (weiß/blanc/wit/biały)
4000 354084 (leuchtgelb/jaune lumineux/lichtgeel/jaskrawo żółty)
4000 354085 (leuchtorange/orange lumineux/lichtoranje/jaskrawo pomarańczowy)
4000 354086 (leuchtrot/rouge lumineux/lichtrood/jaskrawo czerwony)
4000 354087 (leuchtpink/rose lumineux/lichtroze/jaskrawo różowy)

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

Relevant identified uses

general use
marking paint

Uses advised against

do not use for products which come into contact with foodstuffs

1.3 Details of the supplier of the safety data sheet

Nordwest Handel AG
Robert-Schuman-Str. 17
44263 Dortmund
Germany

Telephone: +49 (0)231 2222-3001
Telefax: +49 (0)231 2222-3099
Website: www.nordwest.com

e-Mail (competent person):

sdb@nordwest.com

1.4 Emergency telephone number

Austria:

Vergiftungsinformationszentrale der Gesundheit +43 1 406 43 43

Germany:

Beratungsstelle bei Vergiftungen Giftinformation- +49(0)6131 / 19240

Switzerland:

Tox Info Suisse 145, 24h oder +41 44 251 51 51

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.3	aerosols	Cat. 1	(Aerosol 1)	H222,H229
3.3	serious eye damage/eye irritation	Cat. 2	(Eye Irrit. 2)	H319
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	Cat. 3	(STOT SE 3)	H336

Remarks

For full text of H-phrases: see SECTION 16.

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

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

Signal word

danger

Pictograms

GHS02, GHS07



H222
H229
H319
H336

Extremely flammable aerosol.
Pressurised container: May burst if heated.
Causes serious eye irritation.
May cause drowsiness or dizziness.

P101
P102

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.

P210
P211
P251
P271

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Use only outdoors or in a well-ventilated area.

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 CENTRE/doctor if you feel unwell.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



4000 354080 (rot/rouge/rood/czerwony) - 4000 354081 (blau/bleu/blauw/niebieski) - 4000 354082 (grün/vert/groen/zielony) - 4000 354083 (weiß/blanc/wit/biały) - 4000 354084 (leuchtgelb/jaune lumineux/lichtgeel/jaskrawo żółty) - 4000 354085 (leuchtorange/orange lumineux/lichtoranje/jaskrawo pomarańczowy) - 4000 354086 (leuchtrot/rouge lumineux/lichtrood/jaskrawo czerwony) - 4000 354087 (leuchtpink/rose lumineux/lichtroze/jaskrawo różowy) - MARKING SPRAY - 500 ml

Date of compilation: 2019-12-12

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.

Additional labelling requirements

EUH066 Repeated exposure may cause skin dryness or cracking.

Hazardous ingredients for labelling:

Ethyl acetate. Naphtha (wasserstoffbehandelt), niedrig siedend. Naphtha, wasserstoffbehandelt, niedrig siedend.













2.3 Other hazards

There is no additional information.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description of the mixture

Hazardous ingredients acc. to EU regulation				
Name of substance	Identifier	Wt%	Classification acc. to 1272/2008/EC	Pictograms
butane	CAS No 106-97-8 EC No 203-448-7 REACH Reg. No 01-2119474691-32	25 – < 50	Flam. Gas 1 / H220 Press. Gas L / H280	 
Propan	CAS No 74-98-6 EC No 200-827-9 REACH Reg. No 01-2119486944-21	10 – < 25	Flam. Gas 1 / H220 Press. Gas L / H280	 
ethyl acetate	CAS No 141-78-6 EC No 205-500-4 REACH Reg. No 01-2119475103-46-xxxx	10 – < 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 
Gemisch von i-, n- und cyclo-Aliphaten, überwiegend im Bereich C10-C12	CAS No 64742-49-0 EC No 927-241-2 REACH Reg. No 01-2119471843-32	10 – < 25	Flam. Liq. 3 / H226 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412	  
Gemisch vo i-, n- und cyclo-Aliphaten, überwiegend im Bereich C10-C12	CAS No 64742-49-0 EC No 265-150-3 REACH Reg. No 01-2119471843-32	5 – < 10	Flam. Liq. 3 / H226 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412	  

For full text of abbreviations: see SECTION 16.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



4000 354080 (rot/rouge/rood/czerwony) - 4000 354081 (blau/bleu/blauw/niebieski) - 4000 354082 (grün/vert/groen/zielony) - 4000 354083 (weiß/blanc/wit/biały) - 4000 354084 (leuchtgelb/jaune lumineux/lichtgeel/jaskrawo żółty) - 4000 354085 (leuchtorange/orange lumineux/lichtoranje/jaskrawo pomarańczowy) - 4000 354086 (leuchtrot/rouge lumineux/lichtrood/jaskrawo czerwony) - 4000 354087 (leuchtpink/rose lumineux/lichtroze/jaskrawo różowy) - MARKING SPRAY - 500 ml

Date of compilation: 2019-12-12

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water. Take off contaminated clothing.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water spray, BC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Collect spillage (universal binder).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



4000 354080 (rot/rouge/rood/czerwony) - 4000 354081 (blau/bleu/blauw/niebieski) - 4000 354082 (grün/vert/groen/zielony) - 4000 354083 (weiß/blanc/wit/biały) - 4000 354084 (leuchtgelb/jaune lumineux/lichtgeel/jaskrawo żółty) - 4000 354085 (leuchtorange/orange lumineux/lichtoranje/jaskrawo pomarańczowy) - 4000 354086 (leuchtrot/rouge lumineux/lichtrood/jaskrawo czerwony) - 4000 354087 (leuchtpink/rose lumineux/lichtroze/jaskrawo różowy) - MARKING SPRAY - 500 ml

Date of compilation: 2019-12-12

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation
- Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

Observe instructions for use. Keep out of reach of children.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Notation	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Source
DE	butane	106-97-8		AGW	1,000	2,400	4,000	9,600			TRGS 900
DE	ethyl acetate	141-78-6		MAK	200	750	400	1,500			DFG
DE	ethyl acetate	141-78-6	Y	AGW	200	730	400	1,460			TRGS 900
DE	propane	74-98-6		AGW	1,000	1,800	4,000	7,200			TRGS 900
EU	ethyl acetate	141-78-6		IOEL V	200	734	400	1,468			2017/164/EU

Notation

Ceiling-C
STEL

ceiling value is a limit value above which exposure should not occur
short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit); measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Y

a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value (BGW) are adhered to

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

4000 354080 (rot/rouge/rood/czerwony) - 4000 354081 (blau/bleu/blauw/niebieski) - 4000 354082 (grün/vert/groen/zielony) - 4000 354083 (weiß/blanc/wit/biały) - 4000 354084 (leuchtgelb/jaune lumineux/lichtgeel/jaskrawo żółty) - 4000 354085 (leuchtorange/orange lumineux/lichtoranje/jaskrawo pomarańczowy) - 4000 354086 (leuchtrot/rouge lumineux/lichtrood/jaskrawo czerwony) - 4000 354087 (leuchtpink/rose lumineux/lichtroze/jaskrawo różowy) - MARKING SPRAY - 500 ml



Date of compilation: 2019-12-12

Relevant DNELs/DMELs/PNECs and other threshold levels

- relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
ethyl acetate	141-78-6	DNEL	1,468 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
ethyl acetate	141-78-6	DNEL	1,468 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
ethyl acetate	141-78-6	DNEL	734 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
ethyl acetate	141-78-6	DNEL	63 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
ethyl acetate	141-78-6	DNEL	734 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Naphtha (wasserstoffbehandelt), niedrig siedend	64742-49-0	DNEL	300 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Naphtha (wasserstoffbehandelt), niedrig siedend	64742-49-0	DNEL	1,500 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Naphtha, wasserstoffbehandelt, niedrig siedend	64742-49-0	DNEL	300 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Naphtha, wasserstoffbehandelt, niedrig siedend	64742-49-0	DNEL	1,500 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

- relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
ethyl acetate	141-78-6	PNEC	0.24 mg/l	aquatic organisms	freshwater	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.024 mg/l	aquatic organisms	marine water	short-term (single instance)
ethyl acetate	141-78-6	PNEC	650 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethyl acetate	141-78-6	PNEC	1.15 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.115 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
ethyl acetate	141-78-6	PNEC	0.148 mg/kg	terrestrial organisms	soil	short-term (single instance)
ethyl acetate	141-78-6	PNEC	1.65 mg/l	aquatic organisms	water	intermittent release

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



4000 354080 (rot/rouge/rood/czerwony) - 4000 354081 (blau/bleu/blauw/niebieski) - 4000 354082 (grün/vert/groen/zielony) - 4000 354083 (weiß/blanc/wit/biały) - 4000 354084 (leuchtgelb/jaune lumineux/lichtgeel/jaskrawo żółty) - 4000 354085 (leuchtorange/orange lumineux/lichtoranje/jaskrawo pomarańczowy) - 4000 354086 (leuchtrot/rouge lumineux/lichtrood/jaskrawo czerwony) - 4000 354087 (leuchtpink/rose lumineux/lichtroze/jaskrawo różowy) - MARKING SPRAY - 500 ml

Date of compilation: 2019-12-12

Eye/face protection

Use protective eyewear to guard against splash of liquids.

Skin protection

• hand protection

Wear protective gloves. (Splash protection)

• type of material

NR: natural rubber, latex, FKM: fluoro-elastomer

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection

Full face mask/half mask/quarter mask (EN 136/140)

Type: AX-P2 (gas filters and combined filters against low-boiling point organic compounds and particles, colour code: Brown/White)

Environmental exposure controls

Use appropriate container to avoid environmental contamination.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state aerosol (spray aerosol)

Colour different

Odour like esters

Other physical and chemical parameters

Melting point/freezing point not applicable (aerosol)

Initial boiling point and boiling range not applicable (aerosol)

Flash point not applicable (aerosol)

Flammability (solid, gas) flammable aerosol in accordance with GHS criteria

Explosive limits

• lower explosion limit (LEL) 0.6 vol%

• upper explosion limit (UEL) 15 vol%

Vapour pressure 4,200 hPa at 20 °C

Density 0.74 g/ml (calculated value)

Solubility(ies) not determined

Partition coefficient

n-octanol/water (log KOW) This information is not available.

Auto-ignition temperature 287 °C

Viscosity not relevant (aerosol)

Explosive properties none

Oxidising properties none

9.2 Other information

There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. - Keep away from heat.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



4000 354080 (rot/rouge/rood/czerwony) - 4000 354081 (blau/bleu/blauw/niebieski) - 4000 354082 (grün/vert/groen/zielony) - 4000 354083 (weiß/blanc/wit/biały) - 4000 354084 (leuchtgelb/jaune lumineux/lichtgeel/jaskrawo żółty) - 4000 354085 (leuchtorange/orange lumineux/lichtoranje/jaskrawo pomarańczowy) - 4000 354086 (leuchtrot/rouge lumineux/lichtrood/jaskrawo czerwony) - 4000 354087 (leuchtpink/rose lumineux/lichtroze/jaskrawo różowy) - MARKING SPRAY - 500 ml

Date of compilation: 2019-12-12

Hints to prevent fire or explosion

Protect from sunlight.

Physical stresses which might result in a hazardous situation and have to be avoided

high temperatures

10.5 Incompatible materials

oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

• Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
ethyl acetate	141-78-6	dermal	LD50	>20,000 mg/kg	rabbit

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

• Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

• Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

Wassergefährdungsklasse, WGK (water hazard class) (WGK; Germany): 2 (obviously hazardous to water)

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
ethyl acetate	141-78-6	LC50	230 mg/l	fish	96 h
ethyl acetate	141-78-6	EC50	220 mg/l	fish	96 h

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



4000 354080 (rot/rouge/rood/czerwony) - 4000 354081 (blau/bleu/blauw/niebieski) - 4000 354082 (grün/vert/groen/zielony) - 4000 354083 (weiß/blanc/wit/biały) - 4000 354084 (leuchtgelb/jaune lumineux/lichtgeel/jaskrawo żółty) - 4000 354085 (leuchtorange/orange lumineux/lichtoranje/jaskrawo pomarańczowy) - 4000 354086 (leuchtrot/rouge lumineux/lichtrood/jaskrawo czerwony) - 4000 354087 (leuchtpink/rose lumineux/lichtroze/jaskrawo różowy) - MARKING SPRAY - 500 ml

Date of compilation: 2019-12-12

Aquatic toxicity (chronic)

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
ethyl acetate	141-78-6	EC50	2,306 mg/l	aquatic invertebrates	24 h

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
ethyl acetate	141-78-6	oxygen depletion	62 %	5 d
Naphtha (wasserstoffbehandelt), niedrig siedend	64742-49-0	oxygen depletion	8 %	3 d
Naphtha, wasserstoffbehandelt, niedrig siedend	64742-49-0	oxygen depletion	8 %	3 d

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
butane	106-97-8		1.09 (pH value: 7, 20 °C)	
propane	74-98-6		1.09 (pH value: 7, 20 °C)	
ethyl acetate	141-78-6	30	0.68 (pH value: 7, 25 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

Endocrine disrupting potential

None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

- 16 05 04* gases in pressure containers (including halons) containing dangerous substances
- 15 01 10* packaging containing residues of or contaminated by dangerous substances

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



4000 354080 (rot/rouge/rood/czerwony) - 4000 354081 (blau/bleu/blauw/niebieski) - 4000 354082 (grün/vert/groen/zielony) - 4000 354083 (weiß/blanc/wit/biały) - 4000 354084 (leuchtgelb/jaune lumineux/lichtgeel/jaskrawo żółty) - 4000 354085 (leuchtorange/orange lumineux/lichtoranje/jaskrawo pomarańczowy) - 4000 354086 (leuchtrot/rouge lumineux/lichtrood/jaskrawo czerwony) - 4000 354087 (leuchtpink/rose lumineux/lichtroze/jaskrawo różowy) - MARKING SPRAY - 500 ml

Date of compilation: 2019-12-12

SECTION 14: Transport information

14.1	UN number	1950
14.2	UN proper shipping name	AEROSOLS
14.3	Transport hazard class(es)	
	Class	2 (gases) (aerosol)
	Subsidiary risk(s)	2.1 (flammability)
14.4	Packing group	not assigned to a packing group
14.5	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)
14.6	Special precautions for user	
	Provisions for dangerous goods (ADR) should be complied within the premises.	
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	
	The cargo is not intended to be carried in bulk.	

Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	1950
Proper shipping name	AEROSOLS
Class	2
Classification code	5F
Danger label(s)	2.1



Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D

• International Maritime Dangerous Goods Code (IMDG)

UN number	1950
Proper shipping name	AEROSOLS
Class	2.1
Danger label(s)	2.1



Special provisions (SP)	63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
EmS	F-D, S-U
Stowage category	-

• International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	1950
Proper shipping name	Aerosols, flammable
Class	2.1
Danger label(s)	2.1



Special provisions (SP)	A145, A167
Excepted quantities (EQ)	E0

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



4000 354080 (rot/rouge/rood/czerwony) - 4000 354081 (blau/bleu/blauw/niebieski) - 4000 354082 (grün/vert/groen/zielony) - 4000 354083 (weiß/blanc/wit/biały) - 4000 354084 (leuchtgelb/jaune lumineux/lichtgeel/jaskrawo żółty) - 4000 354085 (leuchtorange/orange lumineux/lichtoranje/jaskrawo pomarańczowy) - 4000 354086 (leuchtrot/rouge lumineux/lichtrood/jaskrawo czerwony) - 4000 354087 (leuchtpink/rose lumineux/lichtroze/jaskrawo różowy) - MARKING SPRAY - 500 ml

Date of compilation: 2019-12-12

Limited quantities (LQ)

30 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

- Restrictions according to REACH, Annex XVII

Name acc. to inventory	CAS No	Restriction	No
flammable / pyrophoric		R40	40
flammable / pyrophoric		R40	40
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
flammable / pyrophoric		R40	40
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
flammable / pyrophoric		R40	40
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
flammable / pyrophoric		R40	40

Legend

R3

1. Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and,
 - present an aspiration hazard and are labelled with R65 or H304,
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';
 - (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';
 - (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.
7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



4000 354080 (rot/rouge/rood/czerwony) - 4000 354081 (blau/bleu/blauw/niebieski) - 4000 354082 (grün/vert/groen/zielony) - 4000 354083 (weiß/blanc/wit/biały) - 4000 354084 (leuchtgelb/jaune lumineux/lichtgeel/jaskrawo żółty) - 4000 354085 (leuchtorange/orange lumineux/lichtoranje/jaskrawo pomarańczowy) - 4000 354086 (leuchtrot/rouge lumineux/lichtrood/jaskrawo czerwony) - 4000 354087 (leuchtpink/rose lumineux/lichtroze/jaskrawo różowy) - MARKING SPRAY - 500 ml

Date of compilation: 2019-12-12

Legend

R40

1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- 'whoopie' cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

'For professional users only'.

3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).

4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

- List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

- Directive 75/324/EEC relating to aerosol dispensers

Classification of the gas/aerosol

extremely flammable

Labelling

keep out of reach of children pressurized container: may burst if heated keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking do not pierce or burn, even after use protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Net contents by volume

500 ml

- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

- Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

- Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

none of the ingredients are listed

National regulations (Germany)

- Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK (water hazard class) 2 (obviously hazardous to water)

hazard class

- Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances		≥ 25 wt%	0.5 kg/h	50 mg/m ³	3)

Notation

3)

a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

- Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK):

2 B (aerosol dispensers and lighters)

National inventories

Country	Inventory	Status
EU	REACH Reg.	not all ingredients are listed

Legend

REACH Reg. REACH registered substances

15.2 Chemical Safety Assessment

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

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



4000 354080 (rot/rouge/rood/czerwony) - 4000 354081 (blau/bleu/blauw/niebieski) - 4000 354082 (grün/vert/groen/zielony) - 4000 354083 (weiß/blanc/wit/biały) - 4000 354084 (leuchtgelb/jaune lumineux/lichtgeel/jaskrawo żółty) - 4000 354085 (leuchtorange/orange lumineux/lichtoranje/jaskrawo pomarańczowy) - 4000 354086 (leuchtrot/rouge lumineux/lichtrood/jaskrawo czerwony) - 4000 354087 (leuchtpink/rose lumineux/lichtroze/jaskrawo różowy) - MARKING SPRAY - 500 ml

Date of compilation: 2019-12-12

SECTION 16: Other information

Abbreviations and acronyms

2017/164/EU.	Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.
ADN.	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).
ADR.	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
AGW.	Workplace exposure limit.
Aquatic Chronic.	Hazardous to the aquatic environment - chronic hazard.
Asp. Tox.	Aspiration hazard.
BCF.	Bioconcentration factor.
BOD.	Biochemical Oxygen Demand.
CAS.	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).
Ceiling-C.	Ceiling value.
CLP.	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
CMR.	Carcinogenic, Mutagenic or toxic for Reproduction.
COD.	Chemical oxygen demand.
DFG.	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim.
DGR.	Dangerous Goods Regulations (see IATA/DGR).
DMEL.	Derived Minimal Effect Level.
DNEL.	Derived No-Effect Level.
EC50.	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval.
EC No.	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).
EINECS.	European Inventory of Existing Commercial Chemical Substances.
ELINCS.	European List of Notified Chemical Substances.
EmS.	Emergency Schedule.
Eye Dam.	Seriously damaging to the eye.
Eye Irrit.	Irritant to the eye.
Flam. Gas.	Flammable gas.
Flam. Liq.	Flammable liquid.
GHS.	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.
IATA.	International Air Transport Association.
IATA/DGR.	Dangerous Goods Regulations (DGR) for the air transport (IATA).
ICAO.	International Civil Aviation Organization.
IMDG.	International Maritime Dangerous Goods Code.
IOELV.	Indicative occupational exposure limit value.
LC50.	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval.
LD50.	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval.
LKG.	Lagerklasse (storage class according to TRGS 510, Germany).
Log KOW.	n-Octanol/water.
MARPOL.	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant").
NLP.	No-Longer Polymer.
PBT.	Persistent, Bioaccumulative and Toxic.
PNEC.	Predicted No-Effect Concentration.
Ppm.	Parts per million.
Press. Gas.	Gas under pressure.
REACH.	Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID.	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).
STEL.	Short-term exposure limit.
STOT SE.	Specific target organ toxicity - single exposure.
SVHC.	Substance of Very High Concern.
TRGS.	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).
TRGS 900.	Arbeitsplatzgrenzwerte (TRGS 900).
TWA.	Time-weighted average.
VPvB.	Very Persistent and very Bioaccumulative.

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

H220.	Extremely flammable gas.
H222.	Extremely flammable aerosol.
H225.	Highly flammable liquid and vapour.
H226.	Flammable liquid and vapour.
H229.	Pressurised container: May burst if heated.
H280.	Contains gas under pressure; may explode if heated.
H304.	May be fatal if swallowed and enters airways.
H319.	Causes serious eye irritation.
H336.	May cause drowsiness or dizziness.
H412.	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.