

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) No 453/2010

Article No.: ZA-3107228 Grossol-Aerosol-Paint 93051 EN1
Print date: 04.05.2015 Revision date: 22.04.2015 Page 1 / 12
Version: 30 Issue date: 22.04.2015

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

1.1. Product identifiers

Article No. (manufacturer/supplier): ZA-3107228
Identification of the substance or mixture: Grossol-Aerosol-Paint
F9LA Industrial Yellow
MCF 103

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

Relevant identified uses

One-pack paint

Uses advised against

Restricted to professional users

1.3. Details of the supplier of the safety data sheet

Distributor

John Deere GmbH & Co. KG
John Deere Straße 70
68163 Mannheim Deutschland
TEL: +49-621-829-01
e-mail: ESOC@JohnDeere.com

1.4. Emergency telephone number

+49 (0) 3222 109 0482

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Aerosol 2 / H223	Aerosol	Flammable aerosol.
Aerosol 2 / H229	Aerosol	Pressurised container: May burst if heated.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is classified as hazardous according to 1999/45/EC.

F+; R12	Extremely flammable	Extremely flammable
R52-53		Harmful to aquatic life. May cause long-term adverse effects in the aquatic environment.
R66		Repeated exposure may cause skin dryness or cracking.
R67		Vapours may cause drowsiness and dizziness.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

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

Hazard pictograms



Warning

Hazard statements

H223	Flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

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H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

contains:

Hydrocarbons, C9-C12 n-alkanes, iso. alkanes, cyclic compounds, aromatics (2-25%)

Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.
 EUH208 Contains 2-butanone oxime. May produce an allergic reaction.

Labelling (67/548/EEC or 1999/45/EC)



F+ Extremely flammable

Hazard statements

12 Extremely flammable
 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 66 Repeated exposure may cause skin dryness or cracking.
 67 Vapours may cause drowsiness and dizziness.

Precautionary statements

16 Keep away from sources of ignition. - No smoking.
 24 Avoid contact with skin.
 38 In case of insufficient ventilation, wear suitable respiratory equipment.
 51 Use only in well-ventilated areas.
 61 Avoid release to the environment. Refer to special instructions/safety data sheet.
 23 Do not breathe vapour.

contains:

n.a.

Special provisions concerning the labelling of certain mixtures

96 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
 97 Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.
 99 Contains 2-butanone oxime. May produce an allergic reaction.

2.3. **Other hazards**

No information available.

SECTION 3: Composition / information on ingredients

3.2. **Mixtures**

Product description / chemical characterization

Description Preparation of synthetic polymers, solvents, pigments and fillers

Hazardous ingredients

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

EC No.	REACH No.	Wt %
CAS No.	Chemical name	Remark
INDEX No.	classification:	
204-065-8	01-2119472128-37	
115-10-6	dimethyl ether	35 < 50
603-019-00-8	Flam. Gas 1 H220 / Press. Gas	
	01-2119458049-33	
	Hydrocarbons, C9-C12 n-alkanes, iso. alkanes, cyclic compounds, aromatics (2-25%)	10 < 12,5
	Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336 / Aquatic Chronic 2 H411	

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204-658-1 123-86-4 607-025-00-1 205-500-4 141-78-6 607-022-00-5 215-535-7 1330-20-7	01-2119485493-29 n-butyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336 01-2119475103-46 ethyl acetate Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 01-2119488216-32 xylene, mixture of isomers	8 < 10 8 < 10 3 < 5
	Flam. Liq. 3 H226 / Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Asp. Tox. 1 H304 / STOT RE 2 H373 / STOT SE 3 H335 01-2119484809-19 Hydrocarbons, C8-C12 n-alkanes, iso. alkanes, cyclic compounds, aromatics (2-25%) Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336 / Aquatic Chronic 2 H411	1 < 2
202-496-6 96-29-7 616-014-00-0	01-2119539477-28 2-butanone oxime Acute Tox. 4 H312 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Carc. 2 H351	0,2 < 0,25
245-018-1 22464-99-9	Zirconium carboxylate Skin Irrit. 2 H315 / Repr. 2 H361	0,1 < 0,15

Classification according to Directive 67/548/EEC or 1999/45/EC

EC No. CAS No. INDEX No.	REACH No. Chemical name classification:	Wt % Remark
204-065-8 115-10-6 603-019-00-8	01-2119472128-37 dimethyl ether F+; R12	35 < 50 *
265-185-4 64742-82-1	01-2119458049-33 Hydrocarbons, C9-C12 n-alkanes, iso. alkanes, cyclic compounds, aromatics (2-25%) R10 / N; R51-53 / Xn; R65 / R66 / R67	10 < 12,5
204-658-1 123-86-4 607-025-00-1 205-500-4 141-78-6 607-022-00-5 215-535-7 1330-20-7	01-2119485493-29 n-butyl acetate R10 / R66 / R67 01-2119475103-46 ethyl acetate F; R11 / Xi; R36 / R66 / R67 01-2119488216-32 xylene, mixture of isomers R10 / Xn; R20/21-48/20-65 / Xi; R36/37/38	8 < 10 8 < 10 3 < 5
	01-2119484809-19 Hydrocarbons, C8-C12 n-alkanes, iso. alkanes, cyclic compounds, aromatics (2-25%) R10 / N; R51-53 / Xn; R65 / R66 / R67	1 < 2
	01-2119455851-35 Hydrocarbons, C9, aromatics R10 / Xi; R37 / N; R51-53 / Xn; R65 / R66 / R67	0,5 < 1

Additional information

* Substance with a common (EC) occupational exposure limit value.
 Full text of R-phrases: see section 16.
 Full text of H-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

Treatment

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

Extremely flammable aerosol. Formation of explosive mixtures possible with vapour / air.

In the event of fire, nitrogen oxides (NO_x), carbon monoxide and carbon dioxide can develop.

5.3. Special protective equipment for firefighters:

Provide a conveniently located respiratory protective device.

Additional information

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

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

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 10 °C and 35 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

The official regulations for the storage of compressed gas packaging must be complied with.

7.3. **Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Occupational exposure limit values:

ethyl acetate

INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

WEL, TWA: 730 mg/m³; 200 ppm

WEL, STEL: 1460 mg/m³; 400 ppm

n-butyl acetate

INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

MEL/OES, TWA: 724 mg/m³; 150 ppm

MEL/OES, STEL: 966 mg/m³; 200 ppm

dimethyl ether

INDEX No. 603-019-00-8 / EC No. 204-065-8 / CAS No. 115-10-6

WEL, TWA: 766 mg/m³; 400 ppm

WEL, STEL: 958 mg/m³; 500 ppm

xylene, mixture of isomers

EC No. 215-535-7 / CAS No. 1330-20-7

WEL, TWA: 220 mg/m³; 50 ppm

WEL, STEL: 441 mg/m³; 100 ppm

BMGV, TWA: 650 ppm

Remark: (methyl hippuric acid/mol creatinine innurine, Post shift)

Additional information

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

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ethyl acetate

INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

DNEL long-term dermal (systemic), Workers: 63 mg/kg bw/day
DNEL acute inhalative (local), Workers: 1468 mg/m³
DNEL acute inhalative (systemic), Workers: 1468 mg/m³
DNEL long-term inhalative (local), Workers: 734 mg/m³
DNEL long-term inhalative (systemic), Workers: 734 mg/m³
DNEL long-term oral (systemic), Consumer: 4,5 mg/kg bw/day

n-butyl acetate

INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

DNEL acute inhalative (local), Workers: 960 mg/m³
DNEL acute inhalative (systemic), Workers: 960 mg/m³
DNEL long-term inhalative (local), Workers: 480 mg/m³
DNEL long-term inhalative (systemic), Workers: 480 mg/m³

Hydrocarbons, C9-C12 n-alkanes, iso. alkanes, cyclic compounds, aromatics (2-25%)

DNEL long-term dermal (local), Workers: 44 mg/kg
DNEL long-term inhalative (local), Workers: 330 mg/m³
DNEL long-term oral (repeated), Consumer: 26 mg/kg

Hydrocarbons, C8-C12 n-alkanes, iso. alkanes, cyclic compounds, aromatics (2-25%)

DNEL long-term dermal (systemic), Workers: 44 mg/kg bw/day
DNEL long-term inhalative (systemic), Workers: 330 mg/m³

xylene, mixture of isomers

EC No. 215-535-7 / CAS No. 1330-20-7

DNEL long-term dermal (systemic), Workers: 180 mg/kg
DNEL acute inhalative (local), Workers: 289 mg/m³
DNEL long-term inhalative (local), Workers: 77 mg/m³
DNEL long-term inhalative (systemic), Workers: 77 mg/m³

PNEC:

ethyl acetate

INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

PNEC aquatic, freshwater: 0,24 mg/L
PNEC aquatic, marine water: 0,024 mg/L
PNEC aquatic, intermittent release: 1,65 mg/L
PNEC sediment, freshwater: 1,15 mg/kg
PNEC sediment, marine water: 0,115 mg/kg
PNEC, Soil: 0,148 mg/kg
PNEC sewage treatment plant (STP): 650 mg/L
PNEC Secondary Poisoning: 200 mg/kg

n-butyl acetate

INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

PNEC aquatic, freshwater: 0,18 mg/L
PNEC aquatic, marine water: 0,018 mg/L
PNEC aquatic, intermittent release: 0,36 mg/L
PNEC sediment, freshwater: 0,981 mg/kg
PNEC sediment, marine water: 0,0981 mg/kg
PNEC, Soil: 0,0903 mg/kg
PNEC sewage treatment plant (STP): 35,6 mg/L

xylene, mixture of isomers

EC No. 215-535-7 / CAS No. 1330-20-7

PNEC aquatic, freshwater: 0,327 mg/L
PNEC aquatic, marine water: 0,327 mg/L
PNEC aquatic, intermittent release: 0,327 mg/L
PNEC sediment, marine water: 12,46 mg/kg
PNEC, Soil: 2,31 mg/kg
PNEC sewage treatment plant (STP): 6,58 mg/L

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and

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solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: Nitril rubber or fluoride rubber
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374 Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state: liquid
Colour: see commercial name
Odour: characteristic

Safety relevant basis data	Measured values	Unit	Method	Remark
Flash point:	< -1	°C	Abel Pensky	
Ignition temperature in °C:	235	°C	lowest value of prep.	
Lower explosion limit:	0,6	Vol-%	Value preparation	
Upper explosion limit:	18,6	Vol-%	Value preparation	
Vapour pressure at 20 °C:	n.a.			
Density at 20 °C:	not indicated	g/cm ³	calculated.	
Water solubility (g/L):	insoluble			
pH at 20 °C:	-			
Viscosity at °C:	n.a.			
Solvent separation test (%):	< 3	%		
Solid content (%):	21	Wt %		
solvent content:				
Organic solvents:	79	Wt %		
Water:	0	Wt %		

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

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10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

ethyl acetate

oral, LD50, Rat: 5600 mg/kg
dermal, LD50, Rabbit: 18000 mg/kg
inhalative (vapours), LC50, Rat: 58 mg/L (8 h)

n-butyl acetate

oral, LD50, Rat: > 10000 mg/kg
dermal, LD50, Rabbit: > 5000 mg/kg
inhalative (vapours), LC50, Rat: > 21 mg/L (4 h)

2-butanone oxime

oral, LD50, Rat: 930 mg/kg
dermal, LD50, Rat:
dermal, LD50, Rabbit:
inhalative (vapours), LC50, Rat: > 10,5 mg/L (4 h)

Zirconium carboxylate

oral, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rabbit: > 2000 mg/kg

Hydrocarbons, C9-C12 n-alkanes, iso. alkanes, cyclic compounds, aromatics (2-25%)

oral, LD50, Rat: > 5000 mg/kg

Hydrocarbons, C8-C12 n-alkanes, iso. alkanes, cyclic compounds, aromatics (2-25%)

oral, LD50, Rat: > 5000 mg/kg

xylene, mixture of isomers

oral, LD50, Rat: 3523 - 8700 mg/kg
dermal, LD50, Rabbit: 1700 - 4500 mg/kg
inhalative (vapours), LC50, Rat: 27,6 mg/L (4 h)
inhalative (vapours), LC50, Rat: 6350 ppm (4 h); evaluation Harmful by inhalation.

Irritant and corrosive effects

Toxicological data are not available.

Sensitisation

Toxicological data are not available.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

n-butyl acetate

Aspiration hazard; evaluation Inhalation causes narcotic effects/intoxication.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Zirconium carboxylate

Reproductive toxicity

Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause

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eye irritation and reversible damage.

Overall Assessment on CMR properties

The ingredients in this preparation do not meet the criteria for classification as CMR category 1 or 2 according to 67/548/EEC.

There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

SECTION 12: Ecological information

overall evaluation

There is no information available on the preparation itself.
Do not allow to enter into surface water or drains.

12.1. Toxicity

ethyl acetate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 230 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 717 mg/L (48 h)
Method: DIN 38412
Algae toxicity, EC50, Desmodesmus subspicatus.: 3300 mg/L (48 h)
Bacteria toxicity, EC10, Pseudomonas putida: 2900 mg/L (16 h)

n-butyl acetate

Fish toxicity, LC50, Leuciscus idus (golden orfe): 62 mg/L (96 h)
Daphnia toxicity, EC50: 44 mg/L (48 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 72,8 mg/L (24 h)
Bacteria toxicity, EC10, Pseudomonas putida: 959 mg/L
Algae toxicity, EC50, Scenedesmus subspicatus: 674,7 mg/L (72 h)
Fish toxicity, LC50, Lepomis macrochirus (Bluegill): 100 mg/L (96 h)
Fish toxicity, LC50, Leuciscus idus (golden orfe): 62 mg/L (96 h)
Bacteria toxicity, EC50: 356 mg/L (40 h)

2-butanone oxime

Fish toxicity, LC50: > 100 mg/L (96 h)
Daphnia toxicity, EC50: 201 mg/L (48 h)
Algae toxicity, IC50: 11,8 mg/L (72 h)

dimethyl ether

Fish toxicity, LC50, Poecilia reticulata (Guppy): > 4000 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 4000 mg/L (48 h)
Acute (short-term) algae toxicity, EC50: 154,9 mg/L (96 h)

Hydrocarbons, C8-C12 n-alkanes, iso. alkanes, cyclic compounds, aromatics (2-25%)

Fish toxicity, LL 50, fish: 1 - 10 mg/L
Algae toxicity, LL 50, Algae: 1 - 10 mg/L
Daphnia toxicity, LL 50, Daphnia: 1 - 10 mg/L

xylylene, mixture of isomers

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 7,6 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1 mg/L (48 h)
Fish toxicity, LD50: Leuciscus idus (golden orfe): 86 mg/L (48 h)
Algae toxicity, LD50, Pseudokirchneriella subcapitata: 4,7 mg/L
Method: OECD 201
Algae toxicity, EC50, Desmodesmus subspicatus.: 110 mg/L (48 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 81 mg/L (24 h)
Bacteria toxicity, EC50, Activated sludge: 1000 mg/L (15 h)

Long-term Ecotoxicity

Toxicological data are not available.

12.2. Persistence and degradability

ethyl acetate

Biodegradation: 79 % (20 d); evaluation Readily biodegradable (according to OECD criteria).
Method: OECD 301D

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Print date: 04.05.2015
Version: 30

Grossol-Aerosol-Paint
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n-butyl acetate
, DOC reduction.: evaluation Readily biodegradable
Biodegradation: 80 % (5 D)

xylene, mixture of isomers
Biodegradation: > 60 % (28 D)
Method: OECD 301 F

12.3. Bioaccumulative potential

n-butyl acetate
Distribution coefficient (n-octanol / water) (log P OW): 1,81
Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

xylene, mixture of isomers
Distribution coefficient (n-octanol / water) (log P OW): 2,77 - 3,15

Bioconcentration factor (BCF)

ethyl acetate
Bioconcentration factor (BCF): 30

12.4. Mobility in soil

ethyl acetate
Mobility in soil: evaluation No data available

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

150104 metallic packaging

packaging

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1. UN number

1950

14.2. UN proper shipping name

Land transport (ADR/RID): Aerosols, flammable
Sea transport (IMDG): AEROSOLS
Air transport (ICAO-TI / IATA-DGR): Aerosols, flammable

14.3. Transport hazard class(es)

2.1

14.4. Packing group

n.a.

14.5. Environmental hazards

Land transport (ADR/RID) n.a.
Marine pollutant n.a.

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

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Advices on safe handling: see parts 6 - 8

Additional information

Land transport (ADR/RID)

tunnel restriction code D

Sea transport (IMDG)

EmS-No. F-D, S-U

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU legislation

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L) ISO 11890-2: 651
 VOC-value (in g/L) ASTM D 2369: 651

according to EU-regulation 2004/42/EC (appendix II)

EU limit value for this product (cat. not applicable): 0 g/l (2007)/0 g/l (2010).
 This product contains max 651 g/l VOC.

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
 Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations, restrictions and prohibition regulations

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

Relevant R-and H-phrases (Number and full text):

Flam. Gas 1 / H220	Flammable gases	Extremely flammable gas.
Press. Gas	Gases under pressure	
Flam. Liq. 3 / H226	flammable liquids	Flammable liquid and vapour.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Flam. Liq. 2 / H225	flammable liquids	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure)	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging the unborn child.
F; R11	Highly flammable	Highly flammable
Xi; R36	Irritant	Irritating to eyes.

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R66		Repeated exposure may cause skin dryness or cracking.
R67		Vapours may cause drowsiness and dizziness.
R10		Flammable
F+; R12	Extremely flammable	Extremely flammable
Xi; R37	Irritant	Irritating to respiratory system.
N; R51-53	Dangerous for the environment	Toxic to aquatic life. May cause long-term adverse effects in the aquatic environment.
Xn; R65	Harmful	Harmful: may cause lung damage if swallowed.
Xn; R20/21-48/20-65	Harmful	Harmful: may cause lung damage if swallowed. Harmful by inhalation and in contact with skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Xi; R36/37/38	Irritant	Harmful: may cause lung damage if swallowed. Irritating to eyes, respiratory system and skin.

Additional information

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

n.a. = : not applicable

n.b. = : not determined

Annex

At present, sufficient data / information on exposure scenarios are not available, so that an evaluation of the preparation cannot yet be made.