

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

1.1. Product identifier

Trade name or designation of the mixture 6309 METALLIC BLACK - HIGH TEMP

Registration number -

Synonyms None.

Product code 1A62H209

Issue date 18-January-2018

Version number 01

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

Identified uses Stove paint.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name FORREST Technical Coatings

Address 1011 McKinley Street
P.O. Box 22110
United States

Division

Telephone 1(541) 342-1821

e-mail info@forrestpaint.com

Contact person Not available.

1.4. Emergency telephone number 1 (800) 424-9300 (CHEMTREC -Contract # 8730)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

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

Classification F+;R12, Carc. Cat. 2;R45, Repr. Cat. 3;R63, Xn;R48/20, Xi;R36, R66-67, R52/53

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Aerosols	Category 2	H223 - Flammable aerosol. H229 - Pressurized container: May burst if heated.
Gases under pressure	Compressed gas	H280 - Contains gas under pressure; may explode if heated.

Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Acute toxicity, dermal	Category 4	H312 - Harmful in contact with skin.
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Reproductive toxicity (the unborn child)	Category 2	H361d - Suspected of damaging the unborn child.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	Category 2	H373 - May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Category 1	H304 - May be fatal if swallowed and enters airways.

Environmental hazards

Hazardous to the aquatic environment,
long-term aquatic hazard

Category 3

H412 - Harmful to aquatic life with
long lasting effects.

Hazard summary**Physical hazards**

Extremely flammable.

Health hazards

May cause cancer. Irritating to eyes. Also harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Occupational exposure to the substance or mixture may cause adverse health effects.

Environmental hazards

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Specific hazards

Prolonged exposure may cause chronic effects.

Main symptoms

Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

2.2. Label elements**Label according to Regulation (EC) No. 1272/2008 as amended****Contains:**

2-Butoxyethanol, ACETONE, BUTANE, Dimethyl carbonate, MANGANESE FERRITE SPINEL, N-Butyl Alcohol, PROPANE, Toluene, XYLENE

Hazard pictograms**Signal word**

Danger

Hazard statements

H223	Flammable aerosol.
H229	Pressurized container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements**Prevention**

P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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.
P260	Do not breathe mist or vapour.
P260	Do not breathe gas.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P101	If medical advice is needed, have product container or label at hand.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTRE/doctor if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.

P337 + P313
P362 + P364

If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Storage

P403 + P233
P405
P410 + P403
P412

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Store in a well-ventilated place.
Do not expose to temperatures exceeding 50°C/122°F.

Disposal

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information

91,2 % of the mixture consists of component(s) of unknown acute oral toxicity. 84,96 % of the mixture consists of component(s) of unknown acute dermal toxicity. 58,2 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 94,58 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 66,24 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
ACETONE	30 - < 40	67-64-1 200-662-2	-	606-001-00-8	#
Classification:	DSD: F;R11, Xi;R36, R66-67 CLP: Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336				
BUTANE	10 - < 20	106-97-8 203-448-7	-	601-004-01-8	
Classification:	DSD: F+;R12 CLP: Flam. Gas 1;H220				C C,U
PROPANE	10 - < 20	74-98-6 200-827-9	-	601-003-00-5	
Classification:	DSD: F+;R12 CLP: Flam. Gas 1;H220, Press. Gas;H280				U
Toluene	10 - < 20	108-88-3 203-625-9	-	601-021-00-3	#
Classification:	DSD: F;R11, Repr. Cat. 3;R63, Xn;R65-48/20, Xi;R38, R67 CLP: Flam. Liq. 2;H225, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Repr. 2;H361d, STOT RE 2;H373, Aquatic Chronic 3;H412				
XYLENE	5 - < 10	1330-20-7 215-535-7	-	601-022-00-9	#
Classification:	DSD: R10, Xn;R20/21, Xi;R38 CLP: Flam. Liq. 3;H226, Acute Tox. 4;H312, Skin Irrit. 2;H315, Acute Tox. 4;H332, Aquatic Chronic 3;H412				C C
2-Butoxyethanol	1 - < 3	111-76-2 203-905-0	-	603-014-00-0	#
Classification:	DSD: Xn;R20/21/22, Xi;R36/38 CLP: Acute Tox. 4;H302, Acute Tox. 4;H312, Eye Irrit. 2;H319, Acute Tox. 4;H332				
Dimethyl carbonate	1 - < 3	616-38-6 210-478-4	-	607-013-00-6	
Classification:	DSD: F;R11 CLP: Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H335, STOT SE 3;H336				
MANGANESE FERRITE SPINEL	1 - < 3	75864-23-2	-	-	#
Classification:	DSD: - CLP: STOT RE 2;H373				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
N-Butyl Alcohol	1 - < 3	71-36-3 200-751-6	-	603-004-00-6	
Classification:		DSD: R10, Xn;R22, Xi;R37/38-41, R67			
		CLP: Flam. Liq. 3;H226, Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335, STOT SE 3;H336, Aquatic Chronic 3;H412			
Aluminium	< 1	7429-90-5 231-072-3	-	013-002-00-1	
Classification:		DSD: F;R11-R15-R17			
		CLP: Flam. Sol. 1;H228, Pyr. Sol. 1;H250, Water-React. 2;H261, Aquatic Acute 1;H400, Aquatic Chronic 1;H410			T
Copper chromite black spinel	< 1	68186-91-4 269-053-7	-	-	#
Classification:		DSD: -			
		CLP: -			
ETHYL BENZENE	< 1	100-41-4 202-849-4	-	601-023-00-4	#
Classification:		DSD: F;R11, Xn;R20-65-48/20			
		CLP: Flam. Liq. 2;H225, Asp. Tox. 1;H304, Acute Tox. 4;H332, Carc. 2;H351, STOT RE 2;H373, Aquatic Chronic 3;H412			
Carbon Black	< 0,3	1333-86-4 215-609-9	-	-	
Classification:		DSD: -			
		CLP: Carc. 2;H351			
Other components below reportable levels	5 - < 10				

List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Not likely, due to the form of the product. Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and delayed Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards	Flammable aerosol. Contents under pressure. Pressurised container may explode when exposed to heat or flame.
5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	None known.
5.2. Special hazards arising from the substance or mixture	Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Special fire fighting procedures	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not breathe gas. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Keep combustibles (wood, paper, oil etc) away from spilled material. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Do not breathe mist or vapour. Do not breathe gas. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
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7.2. Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits****Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value	Form
2-Butoxyethanol (CAS 111-76-2)	STEL	246 mg/m3	
	TWA	50 ppm 98 mg/m3	
ACETONE (CAS 67-64-1)	TWA	20 ppm 1210 mg/m3	
	TWA	500 ppm	
Aluminium (CAS 7429-90-5)	STEL	3 mg/m3	Fume.
	TWA	10 mg/m3	Dust.
	TWA	3 mg/m3	Dust.
BUTANE (CAS 106-97-8)	STEL	1 mg/m3	Fume.
	TWA	1500 mg/m3	
	TWA	1200 mg/m3	
Copper chromite black spinel (CAS 68186-91-4)	TWA	0,5 mg/m3	
	TWA	0,5 mg/m3	
ETHYL BENZENE (CAS 100-41-4)	STEL	884 mg/m3	
	TWA	200 ppm	
Mineral spirits (CAS 8052-41-3)	TWA	442 mg/m3	
	TWA	100 ppm	
N-Butyl Alcohol (CAS 71-36-3)	STEL	1000 mg/m3	
	TWA	700 mg/m3	
PROPANE (CAS 74-98-6)	STEL	200 mg/m3	
	TWA	66 ppm	
	TWA	100 mg/m3	
Toluene (CAS 108-88-3)	STEL	33 ppm	
	TWA	1800 mg/m3	
	TWA	1000 ppm	
XYLENE (CAS 1330-20-7)	STEL	1400 mg/m3	
	TWA	778 ppm	
	TWA	384 mg/m3	
ETHYL BENZENE (CAS 100-41-4)	STEL	100 ppm	
	TWA	192 mg/m3	
	TWA	50 ppm	

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value	Form
2-Butoxyethanol (CAS 111-76-2)	STEL	246 mg/m3	
	TWA	50 ppm 98 mg/m3	
ACETONE (CAS 67-64-1)	TWA	20 ppm 1210 mg/m3	
	TWA	500 ppm	

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value	Form
Copper chromite black spinel (CAS 68186-91-4)	TWA	2 mg/m3	
ETHYL BENZENE (CAS 100-41-4)	STEL	884 mg/m3	
	TWA	200 ppm 442 mg/m3	
MANGANESE FERRITE SPINEL (CAS 75864-23-2)	TWA	100 ppm 0,2 mg/m3	Inhalable fraction.
		0,05 mg/m3	Respirable fraction.
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
	TWA	100 ppm 192 mg/m3	
XYLENE (CAS 1330-20-7)	STEL	50 ppm 442 mg/m3	
	TWA	100 ppm 221 mg/m3 50 ppm	

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

Romania OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the skin.
ETHYL BENZENE (CAS 100-41-4)	Can be absorbed through the skin.
Toluene (CAS 108-88-3)	Can be absorbed through the skin.
XYLENE (CAS 1330-20-7)	Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Chemical respirator with organic vapour cartridge and full facepiece.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

- Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapour cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Aerosol
Physical state	Liquid, Gas.
Form	Aerosol Compressed gas.

Colour	Metallic. Black.
Odour	Solvent.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	-92,0 °C (-133,6 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable. Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	1,3 % estimated
Flammability limit - upper (%)	12,8 % estimated
Vapour pressure	1555,55 hPa estimated
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	0 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	
Density	6,35 lb/gal
Percent volatile	92,03 %w/w
Specific gravity	0,76
VOC	436,75 g/l Material 649,06 g/l COATING

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong acids. Acids. Strong oxidising agents. Nitrates. Halogens. Fluorine. Chlorine.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure	
Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Harmful in contact with skin. Causes skin irritation. 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms Aspiration may cause pulmonary oedema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

11.1. Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Harmful in contact with skin.
Skin corrosion/irritation Causes skin irritation.
Serious eye damage/eye irritation Causes serious eye irritation.
Respiratory sensitisation Due to partial or complete lack of data the classification is not possible.
Skin sensitisation Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.
Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2)	3 Not classifiable as to carcinogenicity to humans.
Carbon Black (CAS 1333-86-4)	2B Possibly carcinogenic to humans.
Copper chromite black spinel (CAS 68186-91-4)	3 Not classifiable as to carcinogenicity to humans.
ETHYL BENZENE (CAS 100-41-4)	2B Possibly carcinogenic to humans.
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.
XYLENE (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging the unborn child.
Specific target organ toxicity - single exposure May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard May be fatal if swallowed and enters airways.
Mixture versus substance information No information available.
Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

Components	Species	Test results
2-Butoxyethanol (CAS 111-76-2)		
Aquatic		
Fish	LC50	Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours
ACETONE (CAS 67-64-1)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 10294 - 17704 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 4740 - 6330 mg/l, 96 hours
Aluminium (CAS 7429-90-5)		
Aquatic		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 0,16 mg/l, 96 hours
ETHYL BENZENE (CAS 100-41-4)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 1,37 - 4,4 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus) 7,711 - 9,591 mg/l, 96 hours
		Fathead minnow (Pimephales promelas) 11,5 - 12,7 mg/l, 96 hours
N-Butyl Alcohol (CAS 71-36-3)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 1897 - 2072 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus) 100 - 500 mg/l, 96 hours

Components	Species		Test results
Toluene (CAS 108-88-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	19,6 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	14,1 - 17,16 mg/l, 96 hours
XYLENE (CAS 1330-20-7)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	10,464 - 16,114 mg/l, 96 hours 7,711 - 9,591 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

2-Butoxyethanol	0,83
ACETONE	-0,24
BUTANE	2,89
ETHYL BENZENE	3,15
N-Butyl Alcohol	0,88
PROPANE	2,36
Toluene	2,73
XYLENE	3,12 - 3,2

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Hazard No. (ADR)	Not available.
Tunnel restriction code	Not available.
14.4. Packing group	Not available.
14.5. Environmental hazards	No.

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number UN1950
14.2. UN proper shipping name Aerosols, flammable
14.3. Transport hazard class(es)
 Class 2.1
 Subsidiary risk -
 Label(s) 2.1
14.4. Packing group Not available.
14.5. Environmental hazards No.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number UN1950
14.2. UN proper shipping name Aerosols, flammable
14.3. Transport hazard class(es)
 Class 2.1
 Subsidiary risk -
 Label(s) 2.1
14.4. Packing group Not available.
14.5. Environmental hazards No.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number ID8000
14.2. UN proper shipping name Consumer commodity
14.3. Transport hazard class(es)
 Class 9
 Subsidiary risk ORM-D
14.4. Packing group Not available.
14.5. Environmental hazards No.
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Other information
 Passenger and cargo aircraft Allowed with restrictions.
 Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN1950
14.2. UN proper shipping name Aerosols, flammable
14.3. Transport hazard class(es)
 Class 2.1
 Subsidiary risk -
 Label(s) 2.1
14.4. Packing group Not available.
14.5. Environmental hazards
 Marine pollutant No.
EmS F-D, S-U
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not established.

**General information**

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

ACETONE (CAS 67-64-1)

Aluminium (CAS 7429-90-5)

Dimethyl carbonate (CAS 616-38-6)

ETHYL BENZENE (CAS 100-41-4)

Toluene (CAS 108-88-3)

BUTANE (CAS 106-97-8)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

BUTANE (CAS 106-97-8)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ACETONE (CAS 67-64-1)

Aluminium (CAS 7429-90-5)

BUTANE (CAS 106-97-8)

Dimethyl carbonate (CAS 616-38-6)

ETHYL BENZENE (CAS 100-41-4)

N-Butyl Alcohol (CAS 71-36-3)

PROPANE (CAS 74-98-6)

Toluene (CAS 108-88-3)

XYLENE (CAS 1330-20-7)

Other regulations	Pregnant women should not work with the product, if there is the least risk of exposure. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.
National regulations	Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	<p>R10 Flammable.</p> <p>R11 Highly flammable.</p> <p>R12 Extremely flammable.</p> <p>R15 Contact with water liberates extremely flammable gases.</p> <p>R17 Spontaneously flammable in air.</p> <p>R20 Harmful by inhalation.</p> <p>R20/21 Harmful by inhalation and in contact with skin.</p> <p>R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.</p> <p>R21/22 Harmful in contact with skin and if swallowed.</p> <p>R22 Harmful if swallowed.</p> <p>R36 Irritating to eyes.</p> <p>R36/38 Irritating to eyes and skin.</p> <p>R37/38 Irritating to respiratory system and skin.</p> <p>R38 Irritating to skin.</p> <p>R41 Risk of serious damage to eyes.</p> <p>R45 May cause cancer.</p> <p>R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.</p> <p>R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R63 Possible risk of harm to the unborn child.</p> <p>R65 Harmful: may cause lung damage if swallowed.</p> <p>R66 Repeated exposure may cause skin dryness or cracking.</p> <p>R67 Vapours may cause drowsiness and dizziness.</p> <p>H220 Extremely flammable gas.</p> <p>H225 Highly flammable liquid and vapour.</p> <p>H226 Flammable liquid and vapour.</p> <p>H228 Flammable solid.</p> <p>H250 Catches fire spontaneously if exposed to air.</p> <p>H261 In contact with water releases flammable gases.</p> <p>H280 Contains gas under pressure; may explode if heated.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H312 Harmful in contact with skin.</p> <p>H315 Causes skin irritation.</p> <p>H315 + H320 Causes skin and eye irritation.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H351 Suspected of causing cancer by inhalation.</p> <p>H351 Suspected of causing cancer.</p> <p>H361d Suspected of damaging the unborn child.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>

Revision information

Product and Company Identification: Product Uses
Composition / Information on Ingredients: Component Summary
Physical & Chemical Properties: Multiple Properties
GHS: Classification

Training information

Follow training instructions when handling this material.

Disclaimer

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, expressed or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.