

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

1.1. Product identifier

Trade name or designation of the mixture	6198 FOREST GREEN - HIGH TEMP
Registration number	-
Synonyms	None.
Product code	1A52H700
Issue date	16-January-2018
Version number	02
Revision date	02-July-2019
Supersedes date	16-January-2018

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

Company name	FORREST Paint Co. DBA FORREST Technical Coatings
Address	1011 McKinley Street P.O. Box 22110
City	Eugene
State	or
Zip	97402
Country	United States
Telephone	1(541)342-1821
Contact person	EHS Department
Website	www.forrestpaint.com
E-mail	info@forrestpaint.com
Emergency phone number	1 (800) 424-9300 (CHEMTREC - Contract # 8730) USA & Canada +1 703-527-3887 (CHEMTREC - Contract # 8730) Outside USA and Canada

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 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 1	H318 - Causes serious eye damage.
Carcinogenicity	Category 2	H351 - Suspected of causing cancer.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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Hazard summary

Aerosol CONTENTS UNDER PRESSURE.

Pressurised container may explode when exposed to heat or flame. Causes serious eye damage. Harmful in contact with skin. Harmful if swallowed. May cause drowsiness and dizziness. Suspected of causing cancer. Causes skin irritation. Dangerous for the environment if discharged into watercourses. This is a consumer care product that is safe for consumers when used according to the label directions. Like many consumer products, a small number of individuals may experience reactions such as redness, rash and / or swelling upon prolonged or repeated skin contact or eye contact.

2.2. Label elements

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

Contains:

ACETONE, N-Butyl Alcohol, 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.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
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 vapour.
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 + P312	IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P330	Rinse mouth.
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.
P310	Immediately call a POISON CENTRE/doctor.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.
P412	Do not expose to temperatures exceeding 50°C/122°F.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Supplemental label information 94,29 % of the mixture consists of component(s) of unknown acute oral toxicity. 78,98 % of the mixture consists of component(s) of unknown acute dermal toxicity. 50,39 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 98,28 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 71,33 % 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	01-2119471330-49-0056	606-001-00-8	#
Classification:	Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336				
PROPANE	10 - < 20	74-98-6 200-827-9	01-2119490743-31-0009	601-003-00-5	
Classification:	Flam. Gas 1;H220, Press. Gas;H280, Aquatic Chronic 2;H411				
XYLENE	10 - < 20	1330-20-7 215-535-7	01-2119539452-40-0007	601-022-00-9	#
Classification:	Flam. Liq. 3;H226, Acute Tox. 4;H312, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Acute Tox. 4;H332, STOT SE 3;H335, STOT RE 2;H373, Aquatic Chronic 3;H412				
IRON CHROMITE BROWN SPINEL	5 - < 10	68187-09-7 269-069-4	-	-	#
Classification:	-				
N-Butyl Alcohol	3 - < 5	71-36-3 200-751-6	01-2119484630-38-0052	603-004-00-6	
Classification:	Flam. Liq. 3;H226, Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H336				
CHROMIUM (III) OXIDE	1 - < 3	1308-38-9 215-160-9	-	-	#
Classification:	-				
ETHYL BENZENE	1 - < 3	100-41-4 202-849-4	01-2119539452-40-0007	601-023-00-4	#
Classification:	Flam. Liq. 2;H225, Asp. Tox. 1;H304, Acute Tox. 4;H332, STOT RE 2;H373, Aquatic Chronic 3;H412				
Other components below reportable levels	10 - < 20				

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. 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 immediately.

Ingestion

Not likely, due to the form of the product. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
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	Do not use water jet as an extinguisher, as this will spread the fire.
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. 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 vapour. 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 emergency responders	Keep unnecessary personnel away.
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. Put material in suitable, covered, labeled containers.
6.4. Reference to other sections	Not available.

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 vapour. Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. 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.

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.

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
ACETONE (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
BUTANE (CAS 106-97-8)	STEL	1500 mg/m3
	TWA	1200 mg/m3
CHROMIUM (III) OXIDE (CAS 1308-38-9)	TWA	0,5 mg/m3
ETHYL BENZENE (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3 100 ppm
IRON CHROMITE BROWN SPINEL (CAS 68187-09-7)	TWA	0,5 mg/m3
N-Butyl Alcohol (CAS 71-36-3)	STEL	200 mg/m3
		66 ppm
	TWA	100 mg/m3 33 ppm
PROPANE (CAS 74-98-6)	STEL	1800 mg/m3 1000 ppm
	TWA	1400 mg/m3 778 ppm
XYLENE (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm
	TWA	221 mg/m3 50 ppm

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

Components	Type	Value
ACETONE (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
CHROMIUM (III) OXIDE (CAS 1308-38-9)	TWA	2 mg/m3
ETHYL BENZENE (CAS 100-41-4)	STEL	884 mg/m3 200 ppm
	TWA	442 mg/m3 100 ppm
IRON CHROMITE BROWN SPINEL (CAS 68187-09-7)	TWA	2 mg/m3
XYLENE (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm
	TWA	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)

General Population

Components	Value	Assessment factor	Notes
ACETONE (CAS 67-64-1)			
Long-term, Systemic, Dermal	62 mg/kg	20	
Long-term, Systemic, Inhalation	200 mg/m3	5	
Long-term, Systemic, Oral	62 mg/kg	2	
BUTANE (CAS 106-97-8)			
Long-term, Systemic, Inhalation	0,066 mg/m3		
N-Butyl Alcohol (CAS 71-36-3)			
Long-term, Local, Inhalation	155 mg/m3		
Long-term, Systemic, Dermal	3,125 mg/kg		
Long-term, Systemic, Inhalation	55,357 mg/m3		
Long-term, Systemic, Oral	1,562 mg/kg		
PROPANE (CAS 74-98-6)			
Long-term, Systemic, Inhalation	0,066 mg/m3		
XYLENE (CAS 1330-20-7)			
Long-term, Local, Inhalation	65,3 mg/m3		
Long-term, Systemic, Dermal	125 mg/kg		
Long-term, Systemic, Inhalation	65,3 mg/m3		
Long-term, Systemic, Oral	12,5 mg/kg		
Short-term, Local, Inhalation	260 mg/m3		
Short-term, Systemic, Inhalation	260 mg/m3		

Workers

Components	Value	Assessment factor	Notes
ACETONE (CAS 67-64-1)			
Long-term, Systemic, Dermal	186 mg/kg		
Long-term, Systemic, Inhalation	1210 mg/m3		
Short-term, Local, Inhalation	2420 mg/m3		
BUTANE (CAS 106-97-8)			
Long-term, Systemic, Dermal	23,4 mg/kg		
Long-term, Systemic, Inhalation	2,21 mg/m3		
N-Butyl Alcohol (CAS 71-36-3)			
Long-term, Local, Inhalation	310 mg/m3	1	Skin irritation/corrosion
PROPANE (CAS 74-98-6)			
Long-term, Systemic, Dermal	23,4 mg/m3		
Long-term, Systemic, Inhalation	2,21 mg/m3		
XYLENE (CAS 1330-20-7)			
Long-term, Local, Inhalation	221 mg/m3		

Long-term, Systemic, Dermal	212 mg/kg
Long-term, Systemic, Inhalation	221 mg/m ³
Short-term, Local, Inhalation	442 mg/m ³
Short-term, Systemic, Inhalation	442 mg/m ³

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
ACETONE (CAS 67-64-1)			
Freshwater	10,6 mg/l	50	
Intermittent releases	21 mg/l	100	
Marine water	1,06 mg/l	500	
Sediment (freshwater)	30,4 mg/kg		
Sediment (marine water)	3,04 mg/kg		
Soil	29,5 mg/kg		
STP	100 mg/l	10	
N-Butyl Alcohol (CAS 71-36-3)			
Freshwater	0,082 mg/l	50	
Intermittent releases	2,25 mg/l	100	
Marine water	0,0082 mg/l	500	
Sediment (freshwater)	0,324 mg/kg		
Sediment (marine water)	0,032 mg/kg		
Soil	0,017 mg/kg		
STP	2476 mg/l	1	
XYLENE (CAS 1330-20-7)			
Freshwater	0,327 mg/l		
Marine water	0,327 mg/l		
Sediment (freshwater)	12,46 mg/kg		
Sediment (marine water)	12,46 mg/kg		
Soil	2,31 mg/kg		
STP	6,58 mg/l		

Exposure guidelines

Romania OELs: Skin designation

ETHYL BENZENE (CAS 100-41-4)
XYLENE (CAS 1330-20-7)

Can be absorbed through the skin.
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.
Form	Aerosol Compressed gas.
Colour	Metallic. Dark green

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.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	1,9 % estimated
Flammability limit - upper (%)	12,8 % estimated
Vapour pressure	1642,74 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	0 lb/gal
Percent volatile	0 %w/w
Specific gravity	0
VOC	0 g/l COATING 0 g/l Material

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 drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Harmful in contact with skin. Causes skin irritation.
Eye contact	Causes serious eye damage.
Ingestion	Harmful if swallowed.
Symptoms	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
11.1. Information on toxicological effects	
Acute toxicity	Harmful in contact with skin. Harmful if swallowed.

Components	Species	Test Results
ACETONE (CAS 67-64-1)		
<u>Acute</u>		
Dermal		
LD50	Guinea pig, rabbit, rat	7400 mg/kg
Inhalation		
LD50	Rat	7600 mg/m3, 4 hours
Oral		
LD50	Rat	5800 mg/kg
N-Butyl Alcohol (CAS 71-36-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	3430 mg/kg
Inhalation		
LC50	Rat	17,76 mg/l
Oral		
LD50	Rat	2292 mg/kg
XYLENE (CAS 1330-20-7)		
<u>Acute</u>		
Dermal		
LD50		12130 mg/kg
Inhalation		
LC50		27120 mg/m3
Oral		
LD50		3523 mg/kg

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

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye damage.
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	Suspected of causing cancer.
IARC Monographs. Overall Evaluation of Carcinogenicity	
CHROMIUM (III) OXIDE (CAS 1308-38-9)	3 Not classifiable as to carcinogenicity to humans.
CHROMIUM COMPOUNDS (CAS N/A)	3 Not classifiable as to carcinogenicity to humans.
ETHYL BENZENE (CAS 100-41-4)	2B Possibly carcinogenic to humans.
IRON CHROMITE BROWN SPINEL (CAS 68187-09-7)	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.
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
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.
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Components		Species	Test Results
ACETONE (CAS 67-64-1)			
Aquatic			
Crustacea	NOEC	Freshwater invertebrate	> 79 mg/l
Fish	LC50	Freshwater fish	5540 mg/l
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			
Algae	EC50	Freshwater algae	225 mg/l
	NOEC	Freshwater algae	129 mg/l
Crustacea	LC50	Water flea (Daphnia magna)	1328 mg/l
	NOEC	Water flea (Daphnia magna)	4,1 mg/l
Fish	LC50	Freshwater fish	1376 mg/l
PROPANE (CAS 74-98-6)			
Aquatic			
Algae	EC50	Freshwater algae	> 7 mg/l
Crustacea	LC50	Freshwater invertebrate	> 14 mg/l
Fish	LC50	Freshwater fish	> 24 mg/l
XYLENE (CAS 1330-20-7)			
Aquatic			
Algae	EC50	Freshwater algae	1,3 mg/l
	NOEC	Freshwater algae	0,44 mg/l
Crustacea	EC50	Freshwater invertebrate	1 mg/l
	NOEC	Freshwater invertebrate	0,96 mg/l
Fish	LC50	Bluegill (Lepomis macrochirus)	10,464 - 13,762 mg/l, 96 hours
		Freshwater fish	2,6 mg/l
	NOEC	Freshwater fish	> 1,3 mg/l

* 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)

ACETONE	-0,24
ETHYL BENZENE	3,15
N-Butyl Alcohol	1
PROPANE	2,36
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.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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	Not available.

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	Not available.

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	Not available.

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	Not available.
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	Not available.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

ADN; ADR; IMDG; RID



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

CHROMIUM (III) OXIDE (CAS 1308-38-9)

CHROMIUM COMPOUNDS (CAS N/A)

Copper compounds (CAS N/A)

IRON CHROMITE BROWN SPINEL (CAS 68187-09-7)

ETHYL BENZENE (CAS 100-41-4)

XYLENE (CAS 1330-20-7)

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

Not listed.

Authorisations

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)

ETHYL BENZENE (CAS 100-41-4)

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

Not listed.

Other EU regulations

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

ACETONE (CAS 67-64-1)

Copper compounds (CAS N/A)

ETHYL BENZENE (CAS 100-41-4)

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

PROPANE (CAS 74-98-6)

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 H-statements not written out in full under Sections 2 to 15

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Revision information

Product and Company Identification: Product and Company Identification
Physical & Chemical Properties: Multiple Properties
Regulatory Information: United States
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.