SAFETY DATA SHEET



Chrome-Silver Spray

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

1.1 Product identifier

Product name : Chrome-Silver Spray : J190-A07Q-Y005-995G UFI

Product code : 111030 Color : Silver.-Gray.

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

Identified uses

Not available.

1.3 Details of the supplier of the safety data sheet

WEICON GmbH & Co. KG Königsberger Str. 255 48157 Münster Germany

Phone: +49 251 93220 Fax: +49(0)251 / 9322 - 244 Internet: www.weicon.de

e-mail address of person responsible for this SDS

: msds@weicon.de

1.4 Emergency telephone number

Telephone number : EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333

(English)

TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44

1865 407333 (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Aerosol 1, H222, H229 Eye Irrit. 2, H319 **STOT SE 3, H336** Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms





Signal word : Danger

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SECTION 2: Hazards identification

Hazard statements: H222, H229 - Extremely flammable aerosol. Pressurized container: may burst if

heated.

H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention: P280 - Wear eye or face protection.

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.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment. P261 - Avoid breathing dust or mist. P264 - Wash thoroughly after handling. P251 - Do not pierce or burn, even after use.

Response : P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

Storage: P405 - Store locked up.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50

°C/122 °F.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Disposal : P501 - Dispose of waste according to applicable legislation.

Hazardous ingredients : acetone

butanone

Supplemental label

elements

: Repeated exposure may cause skin dryness or cracking.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: Aspiration hazard - Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
propane	REACH #: 01-2119486944-21 EC: 200-827-9 CAS: 74-98-6 Index: 601-003-00-5	≥10 - ≤25	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[2]
butane	REACH #: 01-2119474691-32 EC: 203-448-7	≥10 - ≤25	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	[2]

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SECTION 3: Composition/information on ingredients

SECTION 5. Compo	31tion/illionilat	1011 011 111	greaterits		
	CAS: 106-97-8 Index: 601-004-00-0				
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Solvent naphtha (petroleum), light arom.	REACH #: 01-2119455851-35 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≤9	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
aluminium powder (stabilised)	REACH #: 01-2119529243-45 EC: 231-072-3 CAS: 7429-90-5 Index: 013-002-00-1	≤10	Flam. Sol. 1, H228 Water-react. 2, H261	-	[2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≤10	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

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SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

waistband.

Skin contact: Wash skin thoroughly with soap and water or use recognized skin cleanser.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. Remove dentures if any. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person

providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

irritation dryness cracking

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

: None known.

media

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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SECTION 6: Accidental release measures

6.4 Reference to other

sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P3a	150 tonne	500 tonne

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
propane	TRGS 900 OEL (Germany, 7/2021). TWA: 1800 mg/m³ 8 hours. PEAK: 7200 mg/m³ 15 minutes. TWA: 1000 ppm 8 hours. PEAK: 4000 ppm 15 minutes. DFG MAC-values list (Germany, 10/2021). TWA: 1000 ppm 8 hours.
	PEAK: 4000 ppm, 4 times per shift, 15 minutes. TWA: 1800 mg/m³ 8 hours. PEAK: 7200 mg/m³, 4 times per shift, 15 minutes.

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SECTION 8: Exposure controls/personal protection

butane TRGS 900 OEL (Germany, 7/2021). TWA: 2400 mg/m³ 8 hours. PEAK: 9600 mg/m³ 15 minutes. TWA: 1000 ppm 8 hours. PEAK: 4000 ppm 15 minutes. DFG MAC-values list (Germany, 10/2021). [Butane] TWA: 1000 ppm 8 hours. PEAK: 4000 ppm, 4 times per shift, 15 minutes. TWA: 2400 mg/m³ 8 hours. PEAK: 9600 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 7/2021). acetone TWA: 1200 mg/m³ 8 hours. PEAK: 2400 mg/m³ 15 minutes. TWA: 500 ppm 8 hours. PEAK: 1000 ppm 15 minutes. DFG MAC-values list (Germany, 10/2021). TWA: 500 ppm 8 hours. PEAK: 1000 ppm, 4 times per shift, 15 minutes. TWA: 1200 mg/m³ 8 hours. PEAK: 2400 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 7/2021). [] Absorbed through skin. xylene TWA: 220 mg/m³ 8 hours. PEAK: 440 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. PEAK: 100 ppm 15 minutes. DFG MAC-values list (Germany, 10/2021). [Xylene] Absorbed through skin. TWA: 50 ppm 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 220 mg/m³ 8 hours. PEAK: 440 mg/m³, 4 times per shift, 15 minutes. TRGS 900 OEL (Germany, 7/2021). Absorbed through skin. butanone TWA: 600 mg/m³ 8 hours. PEAK: 600 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. PEAK: 200 ppm 15 minutes. DFG MAC-values list (Germany, 10/2021). Absorbed through TWA: 200 ppm 8 hours. PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 600 mg/m³ 8 hours. PEAK: 600 mg/m³, 4 times per shift, 15 minutes. aluminium powder (stabilised) TRGS 900 OEL (Germany, 7/2021). [] TWA: 1.25 mg/m³ 8 hours. Form: alveolar fraction PEAK: 2.5 mg/m³ 15 minutes. Form: alveolar fraction PEAK: 20 mg/m³ 15 minutes. Form: inhalable fraction TWA: 10 mg/m³ 8 hours. Form: inhalable fraction DFG MAC-values list (Germany, 10/2021). [Aluminium, Aluminium oxide and Aluminium hydroxide, containing dusts] TWA: 4 mg/m³ 8 hours. Form: inhalable dust TWA: 1.5 mg/m³ 8 hours. Form: respirable dust n-butyl acetate DFG MAC-values list (Germany, 10/2021). TWA: 100 ppm 8 hours. PEAK: 200 ppm, 4 times per shift, 15 minutes.

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SECTION 8: Exposure controls/personal protection

TWA: 480 mg/m³ 8 hours.

PEAK: 960 mg/m³, 4 times per shift, 15 minutes.

TRGS 900 OEL (Germany, 7/2021).

TWA: 300 mg/m³ 8 hours. TWA: 62 ppm 8 hours. PEAK: 600 mg/m³ 15 minutes. PEAK: 124 ppm 15 minutes.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

_	Type	Exposure	Value	Population	Effects
acetone	DNEL	Long term Oral	62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	186 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	200 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	1210 mg/ m³	Workers	Systemic
	DNEL	Short term Inhalation	2420 mg/ m³	Workers	Local
xylene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	14.8 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	108 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m³	Workers	Local
	DNEL	Short term Inhalation	289 mg/m³	Workers	Systemic
	DNEL	Long term	65.3 mg/m ³	Camaral	Local

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SECTION 8: Exposure controls/personal protection

<u> </u>		<u> </u>			
		Inhalation		population	
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m³	Workers	Local
butanone	DNEL	Long term Oral	31 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	106 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	412 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	600 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1161 mg/ kg bw/day	Workers	Systemic
Solvent naphtha (petroleum), light arom.	DNEL	Long term Inhalation	0.41 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	1.9 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	178.57 mg/ m³	General population	Local
	DNEL	Short term Inhalation	640 mg/m³	General population	Local
	DNEL	Long term Inhalation	837.5 mg/ m³	Workers	Local
	DNEL	Short term Inhalation	1066.67 mg/m³	Workers	Local
	DNEL	Short term Inhalation	1152 mg/ m³	General population	Systemic
	DNEL	Short term Inhalation	1286.4 mg/ m³	Workers	Systemic
n-butyl acetate	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	2 mg/kg	General	Systemic

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		bw/day	population	
DNEL	Short term Dermal	6 mg/kg bw/day	General population	Systemic
DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
DNEL	Long term Inhalation	35.7 mg/m³	General population	Local
DNEL	Short term Inhalation	300 mg/m ³	General population	Local
DNEL	Short term Inhalation	300 mg/m ³	General population	Systemic
DNEL	Long term Inhalation	300 mg/m ³	Workers	Local
DNEL	Short term Inhalation	600 mg/m ³	Workers	Local
DNEL	Short term Inhalation	600 mg/m ³	Workers	Systemic

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended: 1 - 4 hours (breakthrough time): nitrile rubber 4 - 8 hours (breakthrough time): Viton®/butyl rubber

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SECTION 8: Exposure controls/personal protection

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapor (Type AX) and particulate filter

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Aerosol. Color : Silver.-Gray.

Odor Characteristic, [Strong]

Odor threshold Not available. Melting point/freezing point : Not applicable. Initial boiling point and : <0°C (<32°F)

boiling range

Flammability : Extremely flammable in the presence of the following materials or conditions:

open flames, sparks and static discharge.

Highly flammable in the presence of the following materials or conditions: heat.

Upper/lower flammability or

explosive limits

: Lower: 1.5% Upper: 13%

Flash point : Closed cup: Not applicable.

Auto-ignition temperature : Not applicable. **Decomposition temperature** : Not available. : Not applicable. pН

Viscosity : Kinematic (40°C): >20.5 mm²/s

Solubility(ies)

Not available.

Solubility in water : Not available.

Miscible with water : No.

Partition coefficient: n-octanol/: Not applicable.

water

Vapor pressure : Not available. Relative density : Not applicable. Vapor density : Not available. **Explosive properties** : Not available. Oxidizing properties Not available.

Particle characteristics

Median particle size : Not applicable.

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SECTION 9: Physical and chemical properties

Fire point : >200°C

SADT : Not available.

SAPT : Not available.

Heat of combustion : 31.62 kJ/q

Aerosol product

Type of aerosol : Spray

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
acetone	LD50 Oral	Rat	5800 mg/kg	-
xylene	LD50 Oral	Mouse	2119 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
	LDLo Oral	Human	50 mg/kg	-
	LDLo Oral	Human	50 mg/kg	-
	TDLo Dermal	Mouse	727.3 uL/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
n-butyl acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-

Conclusion/Summary: Not available.

Acute toxicity estimates

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SECTION 11: Toxicological information

Route	ATE value
Dermal	14666.67 mg/kg
Inhalation (vapors)	146.67 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
acetone	Eyes - Mild irritant	Human	-	186300 ppm	-
	Eyes - Mild irritant	Rabbit	-	10 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	395 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
butanone	Skin - Mild irritant	Rabbit	-	24 hours 14 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

Skin : Irritating to skin.

Eyes : Irritating to eyes.

Sensitization

Conclusion/Summary: Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

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SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
acetone	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
butanone	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light arom.	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
n-butyl acetate	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 2	-	-

Aspiration hazard

Product/ingredient name	Result
xylene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Skin contact : Defatting to the skin. May cause skin dryness and irritation.Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

irritation dryness cracking

Ingestion: No specific data.

<u>Delayed and immediate effects and also chronic effects from short and long term exposure</u> <u>Short term exposure</u>

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SECTION 11: Toxicological information

Potential immediate

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary: Not available.

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/

or dermatitis.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
acetone	Acute EC50 11493300 μg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 11727900 μg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 7200000 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa - Copepodid	48 hours
	Acute LC50 7550000 µg/l Fresh water	Crustaceans - Asellus aquaticus	48 hours
	Acute LC50 8098000 μg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 11.26487 ml/L Fresh water	Crustaceans - Gammarus pulex - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 7460000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 7810000 μg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 10000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 9218000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
hata afianus/Data af maniaism	. 40/00/0000 Pote of manifestations	. 40/40/0000 Varaina	- 4.04 45/0

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Acute LC50 8800000 µg/l Fresh water Acute LC50 8000 ppm Fresh water Acute LC50 8120000 µg/l Fresh water Acute LC50 8120000 µg/l Fresh water Acute LC50 6120000 µg/l Fresh water Acute LC50 6210000 µg/l Fresh water Acute LC50 6210000 µg/l Fresh water Acute LC50 62000 ppm Fresh water Acute LC50 5600 ppm Fresh water Chronic NOEC 0.5 ml/L Marine water Chronic NOEC 100 ul/L Marine water Chronic NOEC 100 ul/L Marine water Chronic NOEC 101 ml/L Fresh water Chronic NOEC 0.15 ml/L Fresh water Chronic NOEC 0.16 ml/L Fresh water Chronic NOEC 0.11 ml/L Fresh water Chronic NOEC 0.11 ml/L Fresh water Chronic NOEC 0.11 ml/L Fresh water Chronic NOEC 0.15 ml/L Marine water Chronic NOEC 0.11 ml/L Fresh water Chronic NOEC 0.11 ml/L Fresh water Chronic NOEC 0.12 ml/L Fresh water Chronic NOEC 0.11 ml/L Fresh water Chronic NOEC 0.11 ml/L Fresh water Chronic NOEC 0.12 ml/L Fresh water Chronic NOEC 0.12 ml/L Fresh water Chronic NOEC 0.13 ml/L Fresh water Chronic NOEC 0.15 ml/L Fresh water Acute LC50 15700 µg/l Fresh wate				,
Acute LC50 7280000 µg/l Fresh water Acute LC50 8120000 µg/l Fresh water Acute LC50 8120000 µg/l Fresh water Acute LC50 6210000 µg/l Fresh water Acute LC50 620000 µg/l Fresh water Acute LC50 5600 ppm Fresh water Chronic NOEC 0.5 ml/L Marine water Chronic NOEC 100 ul/L Marine water Chronic NOEC 100 ul/L Marine water Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 5 µg/l Marine water Crustaceans - Cypris subglobosa Acute LC50 8500 µg/l Marine water Crustaceans - Palaemonetes puglo - Adult Crustaceans - Palaemonetes puglo Acute LC50 15700 µg/l Fresh water Acute LC50 320000 µg/l Fresh water Acute LC50 185000 µg/l Fresh water Acute LC50 18500		Acute LC50 8800000 μg/l Fresh water	Daphnia - Daphnia pulex	48 hours
Acute LC50 8120000 µg/l Fresh water Acute LC50 6210000 µg/l Fresh water Acute LC50 6210000 µg/l Fresh water Acute LC50 5600 ppm Fresh water Chronic NOEC 0.5 ml/L Marine water Chronic NOEC 100 ul/L Marine water Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 5 µg/l Marine water Crustacea		Acute LC50 8000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Acute LC50 6210000 µg/l Fresh water Acute LC50 5600 ppm Fresh water Chronic NOEC 0.5 mi/L Marine water Chronic NOEC 100 ul/L Marine water Chronic NOEC 100 ul/L Marine water Chronic NOEC 4.95 mg/l Marine water Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 5 µg/l Marine water Chronic NOEC 5 µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l		Acute LC50 7280000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Acute LC50 5600 ppm Fresh water Chronic NOEC 0.5 ml/L Marine water Chronic NOEC 100 ul/L Marine water Chronic NOEC 100 ul/L Marine water Chronic NOEC 100 ul/L Marine water Chronic NOEC 4.95 mg/l Marine water Chronic NOEC 0.1 ml/L Fresh water Chronic NOEC 0.1 ml/L Fresh water Chronic NOEC 5 µg/l Marine water Acute LC50 8500 µg/l Marine water Acute LC50 8500 µg/l Marine water Acute LC50 15700 µg/l Fresh water Acute LC50 15700 µg/l Fresh water Acute LC50 13400 µg/l Fresh water Acute LC50 13400 µg/l Fresh water Acute LC50 3220000 µg/l Marine water Acute LC50 3220000 µg/l Fresh water Acute LC50 3220000 µg/l Fresh water Acute LC50 3220000 µg/l Fresh water Acute LC50 62000 µg/l Fresh water Acute LC50 100000 µg/l Fres		Acute LC50 8120000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Chronic NOEC 0.5 ml/L Marine water Chronic NOEC 100 ul/L Marine water Chronic NOEC 0.10 ml/L Fresh water Chronic NOEC 0.1 ml/L Fresh water Chronic NOEC 5 µg/l Marine water Chronic NOEC 0.1 ml/L Fresh water Acute LC50 90 mg/l Fresh water Acute LC50 8.50 pm Marine water Acute LC50 16940 µg/l Fresh water Acute LC50 169000 µg/l Fresh water Acute LC50 3220000 µg/l Fresh water Acute LC50 320000 µg/l Fresh water Acute LC50 100000 µg/l Fresh water		Acute LC50 6210000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Chronic NOEC 100 ul/L Marine water Chronic NOEC 100 ul/L Marine water Chronic NOEC 4.95 mg/l Marine water Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 0.1 ml/L Fresh water Chronic NOEC 5 µg/l Marine water Chronic NOEC 0.1 ml/L Fresh water Acute LC50 1590 mg/l Fresh water Acute LC50 15900 mg/l Fresh water Acute LC50 32 mg/l Marine water Acute LC50 15000 mg/l Fresh water Acute LC50 100000 µg/l Fresh water Acut		Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
Chronic NOEC 100 ul/L Marine water Chronic NOEC 4.95 mg/l Marine water Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 0.1 ml/L Fresh water Chronic NOEC 0.1 ml/L Fresh water Chronic NOEC 5 µg/l Marine water Chronic NOEC 0.1 ml/L Fresh water Acute LC50 16940 µg/l Fresh water Acute LC50 185000 µg/l Fresh water Acute LC50 120000 µg/l Fresh water Acute LC50 100000 µg/l Fresh wa		Chronic NOEC 0.5 ml/L Marine water	Algae - Karenia brevis	96 hours
Chronic NOEC 4.95 mg/l Marine water Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 0.11 ml/L Fresh water Chronic NOEC 5 µg/l Marine water Chronic NOEC 0.11 ml/L Fresh water Acute LC50 185000 µg/l Fresh water Acute LC50 120000 µg/l Fresh water Acute LC50 185000 µg/l Marine water		Chronic NOEC 100 ul/L Marine water	Algae - Skeletonema costatum	72 hours
Chronic NOEC 0.016 ml/L Fresh water Chronic NOEC 0.1 ml/L Fresh water Chronic NOEC 0.1 ml/L Fresh water Chronic NOEC 5 µg/l Marine water Chronic NOEC 0.1 ml/L Fresh water Acute LC50 8500 µg/l Fresh water Acute LC50 19000 µg/l Fresh water Acute LC50 19000 µg/l Fresh water Acute LC50 3220000 µg/l Fresh water Acute LC50 3220000 µg/l Fresh water Acute LC50 320000 µg/l Fresh water Acute LC50 320000 µg/l Fresh water Acute LC50 62000 µg/l Fresh water Acute LC50 100000 µg/l Fresh water Acute LC50 100000 µg/l Fresh water Acute LC50 185000 µg/l Fresh water Acute LC50 185000 µg/l Marine water Acute LC5		Chronic NOEC 100 ul/L Marine water	Algae - Skeletonema costatum	96 hours
Chronic NOEC 0.1 ml/L Fresh water Chronic NOEC 5 μg/l Marine water Acute EC50 90 mg/l Fresh water Crustaceans - Cypris subglobosa Acute LC50 8.5 ppm Marine water Crustaceans - Palaemonetes pugio - Adult Acute LC50 8500 μg/l Marine water Acute LC50 16940 μg/l Fresh water Acute LC50 15700 μg/l Fresh water Acute LC50 15700 μg/l Fresh water Acute LC50 19000 μg/l Fresh water Acute LC50 19000 μg/l Fresh water Acute LC50 19000 μg/l Fresh water Acute LC50 13400 μg/l Fresh water Acute EC50 5091000 μg/l Marine water Acute EC50 3220000 μg/l Fresh water Acute LC50 320000 μg/l Fresh water Acute LC50 185000 μg/l Fresh water Acute LC50 1000000 μg/l Fresh water		Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
Neonate Chronic NOEC 5 μg/l Marine water Chronic NOEC 5 μg/l Marine water Acute EC50 90 mg/l Fresh water Acute LC50 8.5 ppm Marine water Acute LC50 8.5 ppm Marine water Acute LC50 8500 μg/l Marine water Acute LC50 16940 μg/l Fresh water Acute LC50 15700 μg/l Fresh water Acute LC50 19000 μg/l Fresh water Acute LC50 13400 μg/l Fresh water Acute LC50 13400 μg/l Fresh water Acute EC50 5091000 μg/l Fresh water Acute EC50 3220000 μg/l Fresh water Acute LC50 32 mg/l Marine water Acute LC50 10000 μg/l Fresh water Acute LC50 32 mg/l Marine water Acute LC50 32 mg/l Marine water Acute LC50 100000 μg/l Fresh water Acute LC50 32 mg/l Marine water Acute LC50 100000 μg/l Fresh water Acute LC50 32 mg/l Marine water Acute LC50 100000 μg/l Fresh water		Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
xylene Acute EC50 90 mg/l Fresh water Crustaceans - Cypris subglobosa Acute LC50 8.5 ppm Marine water Crustaceans - Palaemonetes pugio - Adult Acute LC50 8500 μg/l Marine water Crustaceans - Palaemonetes pugio - Adult Acute LC50 16940 μg/l Fresh water Acute LC50 15700 μg/l Fresh water Fish - Carassius auratus Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) Acute LC50 20870 μg/l Fresh water Acute LC50 13400 μg/l Fresh water Fish - Lepomis macrochirus Acute LC50 13400 μg/l Fresh water Acute EC50 >5000000 μg/l Marine water Acute EC50 5091000 μg/l Fresh water Acute EC50 3220000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 320000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water		Chronic NOEC 0.1 ml/L Fresh water		21 days
Subglobosa Acute LC50 8.5 ppm Marine water Acute LC50 8500 μg/l Marine water Acute LC50 8500 μg/l Marine water Acute LC50 16940 μg/l Fresh water Acute LC50 15700 μg/l Fresh water Acute LC50 15700 μg/l Fresh water Acute LC50 15700 μg/l Fresh water Acute LC50 19000 μg/l Fresh water Acute LC50 19000 μg/l Fresh water Acute LC50 13400 μg/l Fresh water Acute LC50 5091000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 320000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water Acute LC50 185000 μg/l Fresh water Acute LC50 185000 μg/l Marine water		Chronic NOEC 5 µg/l Marine water		42 days
Acute LC50 8500 μg/l Marine water Acute LC50 16940 μg/l Fresh water Acute LC50 15700 μg/l Fresh water Acute LC50 15700 μg/l Fresh water Acute LC50 20870 μg/l Fresh water Acute LC50 19000 μg/l Fresh water Acute LC50 13400 μg/l Fresh water Acute LC50 13400 μg/l Fresh water Acute LC50 5091000 μg/l Fresh water Acute EC50 5091000 μg/l Fresh water Acute EC50 3220000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 32 mg/l Marine water Acute LC50 62000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 3250000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water	xylene	Acute EC50 90 mg/l Fresh water	, · · · · · · · · · · · · · · · · · · ·	48 hours
Pugio Acute LC50 16940 μg/l Fresh water Acute LC50 15700 μg/l Fresh water Acute LC50 15700 μg/l Fresh water Acute LC50 20870 μg/l Fresh water Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) Acute LC50 19000 μg/l Fresh water Acute LC50 13400 μg/l Fresh water Acute LC50 13400 μg/l Fresh water Acute EC50 >500000 μg/l Marine water Acute EC50 5091000 μg/l Fresh water Acute EC50 5091000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 32 mg/l Marine water Acute LC50 62000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water Acute LC50 185000 μg/l Fresh water Acute LC50 185000 μg/l Marine water		Acute LC50 8.5 ppm Marine water		48 hours
Acute LC50 15700 μg/l Fresh water Acute LC50 20870 μg/l Fresh water Acute LC50 19000 μg/l Fresh water Acute LC50 13400 μg/l Fresh water Acute LC50 13400 μg/l Fresh water Acute EC50 >500000 μg/l Marine water Acute EC50 5091000 μg/l Fresh water Acute EC50 3220000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 32 mg/l Marine water Acute LC50 100000 μg/l Fresh water Acute LC50 185000 μg/l Marine water		Acute LC50 8500 μg/l Marine water		48 hours
Juvenile (Fledgling, Hatchling, Weanling) Acute LC50 20870 μg/l Fresh water Acute LC50 19000 μg/l Fresh water Acute LC50 13400 μg/l Fresh water Acute LC50 13400 μg/l Fresh water Acute EC50 >5000000 μg/l Marine water Acute EC50 5091000 μg/l Fresh water Acute EC50 5091000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 32 mg/l Marine water Acute LC50 32 mg/l Marine water Acute LC50 62000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water Acute LC50 185000 μg/l Marine water Fish - Danio rerio 96 hours Fish - Danio rerio 96 hours Fish - Lepomis macrochirus 96 hours Fish - Danio rerio 96 hours Acute LC50 185000 μg/l Marine water Acute LC50 185000 μg/l Marine water Fish - Menidia beryllina		Acute LC50 16940 μg/l Fresh water	Fish - Carassius auratus	96 hours
Acute LC50 19000 μg/l Fresh water Acute LC50 13400 μg/l Fresh water Acute EC50 >500000 μg/l Marine water Acute EC50 5091000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 32 mg/l Marine water Acute LC50 62000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water Acute LC50 185000 μg/l Fresh water Fish - Lepomis macrochirus 96 hours Crustaceans - Artemia salina 48 hours Fish - Danio rerio 96 hours Fish - Lepomis macrochirus 96 hours Fish - Danio rerio 96 hours Fish - Lepomis macrochirus 96 hours		Acute LC50 15700 μg/l Fresh water	Juvenile (Fledgling, Hatchling,	96 hours
Acute LC50 13400 μg/l Fresh water Acute EC50 >500000 μg/l Marine water Acute EC50 >5091000 μg/l Fresh water Acute EC50 5091000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water Acute LC50 32 mg/l Marine water Acute LC50 32 mg/l Marine water Acute LC50 62000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water Acute LC50 185000 μg/l Marine water Fish - Pimephales promelas 96 hours Crustaceans - Artemia salina 48 hours Fish - Danio rerio 96 hours Fish - Lepomis macrochirus 96 hours Fish - Lepomis macrochirus 96 hours		Acute LC50 20870 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours
butanone Acute EC50 >500000 μg/l Marine water Acute EC50 5091000 μg/l Fresh water Acute LC50 3220000 μg/l Fresh water n-butyl acetate Acute LC50 3220000 μg/l Fresh water Acute LC50 32 mg/l Marine water Acute LC50 62000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water Acute LC50 185000 μg/l Marine water Fish - Danio rerio Fish - Lepomis macrochirus 96 hours Fish - Danio rerio 96 hours Fish - Danio rerio 96 hours Fish - Danio rerio 96 hours Fish - Lepomis macrochirus 96 hours Fish - Menidia beryllina 96 hours		Acute LC50 19000 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours
Acute EC50 5091000 μg/l Fresh water Daphnia - Daphnia magna - Larvae Acute LC50 3220000 μg/l Fresh water n-butyl acetate Acute LC50 32 mg/l Marine water Acute LC50 62000 μg/l Fresh water Acute LC50 100000 μg/l Fresh water Acute LC50 185000 μg/l Marine water Acute LC50 185000 μg/l Marine water Fish - Danio rerio 96 hours Acute LC50 185000 μg/l Marine water Fish - Menidia beryllina 96 hours		Acute LC50 13400 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Acute LC50 3220000 μg/l Fresh water Fish - Pimephales promelas 96 hours n-butyl acetate Acute LC50 32 mg/l Marine water Crustaceans - Artemia salina 48 hours Acute LC50 62000 μg/l Fresh water Fish - Danio rerio 96 hours Acute LC50 100000 μg/l Fresh water Fish - Lepomis macrochirus 96 hours Acute LC50 185000 μg/l Marine water Fish - Menidia beryllina 96 hours	butanone	Acute EC50 >500000 μg/l Marine water	Algae - Skeletonema costatum	96 hours
n-butyl acetate Acute LC50 32 mg/l Marine water Acute LC50 62000 µg/l Fresh water Acute LC50 100000 µg/l Fresh water Acute LC50 185000 µg/l Marine water Fish - Danio rerio Fish - Lepomis macrochirus 96 hours Fish - Menidia beryllina 96 hours		Acute EC50 5091000 μg/l Fresh water	I. '	48 hours
Acute LC50 62000 μg/l Fresh water Fish - Danio rerio 96 hours Acute LC50 100000 μg/l Fresh water Fish - Lepomis macrochirus 96 hours Acute LC50 185000 μg/l Marine water Fish - Menidia beryllina 96 hours		Acute LC50 3220000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Acute LC50 100000 μg/l Fresh water Acute LC50 185000 μg/l Marine water Fish - Lepomis macrochirus 96 hours 96 hours	n-butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
Acute LC50 185000 μg/l Marine water Fish - Menidia beryllina 96 hours		Acute LC50 62000 μg/l Fresh water	Fish - Danio rerio	96 hours
		Acute LC50 100000 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours
Acute LC50 18000 μg/l Fresh water Fish - Pimephales promelas 96 hours		Acute LC50 185000 μg/l Marine water	Fish - Menidia beryllina	96 hours
		Acute LC50 18000 μg/l Fresh water	Fish - Pimephales promelas	96 hours

Conclusion/Summary

: Not available.

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SECTION 12: Ecological information

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
acetone	-0.23	-	low
xylene	3.12	8.1 to 25.9	low
butanone	0.3	-	low
Solvent naphtha (petroleum), light arom.	-	10 to 2500	high
n-butyl acetate	2.3	-	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC)

Waste code	Waste designation	
16 05 04*	gases in pressure containers (including halons) containing hazardous substances	

Packaging

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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SECTION 13: Disposal considerations

Type of packaging	European waste catalogue (EWC)
15 01 04	metallic packaging

Special precautions

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3 Transport hazard class(es)	2	2.1	2.1
14.4 Packing group	-	-	-
14.5 Environmental hazards	No. Not available.	No. Not available.	No.

Additional information

ADR/RID : Limited quantity 1 L

Special provisions 190, 327, 625, 344

Tunnel code (D)

ADR Classification Code: 5F

IMDG : **Emergency schedules** F-D, S-U

Special provisions 63, 190, 277, 327, 344, 381, 959

IATA : **Quantity limitation** Passenger and Cargo Aircraft: 75 kg. Packaging instructions:

203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities -

Passenger Aircraft: 30 kg. Packaging instructions: Y203.

Special provisions A145, A167, A802

14.6 Special precautions for

user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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SECTION 15: Regulatory information

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Restrictions on Manufacture, Marketing and Use

CountryProduct name Conc. Designation Usage

GB Chrome-Silver Spray 100 28 Restricted to professional

users.

GB Chrome-Silver Spray 100 29 Restricted to professional

users.

Other EU regulations

Industrial emissions : Listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Listed

(integrated pollution prevention and control) -

Water

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Aerosol dispensers

3



Extremely flammable

VOC content : 89 % **VOC (g/L)** : 627.2

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category		
P3a		

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
acetone	DFG MAC-values list	Acetone	RE2	-

Storage class (TRGS 510) : 2B <u>Hazardous incident ordinance</u>

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SECTION 15: Regulatory information

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
P3a	1.2.3.1

Hazard class for water : 2

Technical instruction on : TA-Luft Number 5.2.5: 61.5-100% air quality control : TA-Luft Number 5.2.1: 1-10%

AOX : The product does not contain organically bound halogens which could lead to an

AOX value in waste water.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Eurasian Economic Union: Russian Federation inventory: All components are listed or exempted.

Japan : Japan inventory (CSCL): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted. **Philippines** : All components are listed or exempted. Republic of Korea : All components are listed or exempted. **Taiwan** : All components are listed or exempted. **Thailand** : All components are listed or exempted. Turkev : All components are listed or exempted. **United States** : All components are active or exempted. **Viet Nam** All components are listed or exempted.

15.2 Chemical Safety : This product contains substances for which Chemical Safety Assessments are still

Assessment required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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SECTION 16: Other information

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Aerosol 1, H222, H229	On basis of test data
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H220	Extremely flammable gas.
H222, H229	Extremely flammable aerosol. Pressurized container: may burst if
	heated.
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H228	Flammable solid.
H261	In contact with water releases flammable gas.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aerosol 1	AEROSOLS - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Gas 1A	FLAMMABLE GASES - Category 1A
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Flam. Sol. 1	FLAMMABLE SOLIDS - Category 1
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
	EXPOSURE) - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
	Category 3
Water-react. 2	SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH
	WATER, EMIT FLAMMABLE GASES - Category 2

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Chrome-Silver Spray

SECTION 16: Other information

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Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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