# SAFETY DATA SHEET



1/18

#### according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Stainless Steel Spray bright grade

## Section 1. Identification

GHS product identifier	:	Stainless Steel Spray bright grade
Product code	:	111040

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

Aerosol product

Supplier's details	: WEICON Canada Inc. 20 Steckle Place, Unit 20 Kitchener, Ontario N2E 2C3, CA www.weicon.ca E-mail: info@weicon.ca Telephone: +1-519-896-5252 Telefax: +1-519-896-5254
e-mail address of person responsible for this SDS	: msds@weicon.de
Emergency telephone	: +1 202 464 2554 / TRANSPORT EMERGENCY CONTACT - USA (24h): Tel: +1 202

# number 464 2554

### Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	<ul> <li>FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2</li> </ul>

GHS label elements	
Hazard pictograms	

- -



Signal word	Danger	
Hazard statements	<ul> <li>H222 - Extremely flammable aerosol.</li> <li>H280 - Contains gas under pressure; may explode if heated.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> <li>H351 - Suspected of causing cancer.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure</li> </ul>	<del>9</del> .
Precautionary statements		
Prevention	<ul> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other igni sources. No smoking.</li> <li>P211 - Do not spray on an open flame or other ignition source.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P251 - Pressurized container: Do not pierce or burn, even after use.</li> </ul>	ition
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# Section 2. Hazards identification

Response	: Not applicable.
Storage	: Not applicable.
Disposal	: P501 - Dispose of waste according to applicable legislation.
Hazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
acetone	≤10	67-64-1
ethyl acetate	≤10	141-78-6
xylene	≤10	1330-20-7
n-butyl acetate	≤10	123-86-4
butan-1-ol	<3	71-36-3
nickel	<1	7440-02-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### Section 4. First aid measures

#### Description of necessary 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	<ul> <li>Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.</li> <li>Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.</li> </ul>
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.

#### Most important symptoms/effects, acute and delayed

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Skin contact	: Causes s	kin irritation. May cause a	n allergic skin reaction.		
Inhalation	: Can caus dizziness	e central nervous system (	CNS) depression. May c	ause drowsiness or	
Eye contact	: Causes s	erious eye irritation.			
Potential acute health eff	fects				

### Section 4. First aid measures

Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/symp	<u>otoms</u>
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 redness
Ingestion	: No specific data.
ndication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
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

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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Section 5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	: None known.	
Specific hazards arising from the chemical	: 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.	
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide	
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.	

See toxicological information (Section 11)

### Section 6. Accidental release measures

#### 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".
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).
<u>Methods and materials for</u> 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.
Small spill	:	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.

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid breathing gas. 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.
Conditions for safe storage, including any incompatibilities	:	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. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
acetone	ACGIH TLV (United States, 1/2021).
	TWA: 250 ppm 8 hours.
	STEL: 500 ppm 15 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 750 ppm 8 hours.
	TWA: 1800 mg/m <sup>3</sup> 8 hours.
	STEL: 1000 ppm 15 minutes.
	STEL: 2400 mg/m <sup>3</sup> 15 minutes.
	NIOSH REL (United States, 10/2020).
	TWA: 250 ppm 10 hours.
	TWA: 590 mg/m <sup>3</sup> 10 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 1000 ppm 8 hours.
	TWA: 2400 mg/m³ 8 hours.
ethyl acetate	ACGIH TLV (United States, 1/2021).
	TWA: 400 ppm 8 hours.
	TWA: 1440 mg/m <sup>3</sup> 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 400 ppm 8 hours.
	TWA: 1400 mg/m <sup>3</sup> 8 hours.
	NIOSH REL (United States, 10/2020).
	TWA: 400 ppm 10 hours.
	TWA: 1400 mg/m <sup>3</sup> 10 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 400 ppm 8 hours.
	TWA: 1400 mg/m <sup>3</sup> 8 hours.
xylene	ACGIH TLV (United States, 1/2021). [Xylene]
	TWA: 100 ppm 8 hours.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	[Xylenes (o-, m-, p-isomers)]
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 655 mg/m <sup>3</sup> 15 minutes.
	OSHA PEL (United States, 5/2018).
	[Xylenes]
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m <sup>3</sup> 8 hours.
n-butyl acetate	OSHA PEL 1989 (United States, 3/1989).
	TWA: 150 ppm 8 hours.
	TWA: 710 mg/m <sup>3</sup> 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 950 mg/m <sup>3</sup> 15 minutes.
	NIOSH REL (United States, 10/2020).
	TWA: 150 ppm 10 hours.
	TWA: 710 mg/m <sup>3</sup> 10 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 950 mg/m <sup>3</sup> 15 minutes.
	OSHA PEL (United States, 5/2018).
	TWA: 150 ppm 8 hours.
	TWA: 710 mg/m <sup>3</sup> 8 hours.
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# Section 8. Exposure controls/personal protection

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	ACGIH TLV (United States, 1/2021). [Butyl
	acetates]
	STEL: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
butan-1-ol	ACGIH TLV (United States, 1/2021).
	TWA: 20 ppm 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	Absorbed through skin.
	CEIL: 50 ppm
	CEIL: 150 mg/m <sup>3</sup>
	NIOSH REL (United States, 10/2020).
	Absorbed through skin.
	CEIL: 50 ppm
	CEIL: 150 mg/m <sup>3</sup>
	OSHA PEL (United States, 5/2018).
	TWA: 100 ppm 8 hours.
	TWA: 100 ppm 8 hours.
	TWA. 500 mg/m 8 hours.
nickel	ACGIH TLV (United States, 1/2021).
	TWA: 1.5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	fraction
	OSHA PEL 1989 (United States, 3/1989).
	[Nickel, metal and insoluble compounds
	(as Ni)]
	TWA: 1 mg/m <sup>3</sup> , (as Ni) 8 hours.
	NIOSH REL (United States, 10/2020).
	[nickel metal and other compounds]
	TWA: $0.015 \text{ mg/m}^3$ , (as Ni) 10 hours.
	OSHA PEL (United States, 5/2018). [Nickel,
	metal and insoluble compounds]
	TWA: 1 mg/m <sup>3</sup> , (as Ni) 8 hours.
	1 vvA. $1$ mg/m, (as N) o nours.

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.
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.
Individual protection measure	<u>95</u>
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. Contaminated work clothing should not be allowed out of the workplace. 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	

# Section 8. Exposure controls/personal 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
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.
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

# Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	:	Aerosol.
Color	:	Silver.
Odor	:	Characteristic.
Odor threshold	:	Not available.
рН	:	No results available.
Melting point/freezing point	:	Not applicable.
Boiling point, initial boiling point, and boiling range	:	Not available.
Flash point	:	Closed cup: Not applicable.
Fire point	:	>200°C (>392°F)
Evaporation rate	:	Not available.
Flammability	:	Not available.
Lower and upper explosion limit/flammability limit	:	Lower: 1.5% Upper: 10.9%
Vapor pressure	-	Not available.
Relative vapor density	:	Not available.
Relative density	:	Not applicable.
Density	:	0.9 g/cm³ [20°C (68°F)]
Solubility(ies)	:	
Not available.		
Solubility in water	:	Not available.
Miscible with water	:	No.
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not available.
Heat of combustion	:	33.08 kJ/g
Viscosity	:	Not applicable.
Flow time (ISO 2431)	:	Not available.
Particle characteristics		

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# Section 9. Physical and chemical properties

Median particle size	: Not applicable.
Aerosol product	

Type of aerosol : Spray

### Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.		
Chemical stability	: The product is stable.		
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.		
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).		
Incompatible materials	: No specific data.		
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.		

## Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
acetone	LD50 Oral	Rat	5800 mg/kg	-
ethyl acetate	LD50 Oral	Rat	5620 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	-
n-butyl acetate	LC50 Inhalation Vapor	Rat - Male, Female	>21 mg/l	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
butan-1-ol	LC50 Inhalation Vapor	Rat	24000 mg/m³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-

#### Acute toxicity estimates

# Section 11. Toxicological information

Route	ATE value	
Oral	42069.48 mg/kg	
Dermal	14644.44 mg/kg	
Inhalation (vapors)	146.44 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	-
butan-1-ol	Eyes - Severe irritant	Rabbit	-	0.005 MI	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-

#### **Sensitization**

Not available.

#### Mutagenicity

Not available.

Carcinogenicity

Not available.

#### **Classification**

ſ	Product/ingredient name	OSHA	IARC	NTP
Ī	xylene	-	3	-
	nickel	-	2B	Reasonably anticipated to be a human carcinogen.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

# Section 11. Toxicological information

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
acetone	Category 3	-	Narcotic effects
ethyl acetate	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
n-butyl acetate	Category 3	-	Narcotic effects
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	0,	Route of exposure	Target organs
xylene	Category 2	-	-
nickel	Category 1	-	-

#### Aspiration hazard

Name	Result		
xylene	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	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Symptoms related to the phy	sical, 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 redness
Ingestion	: No specific data.
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
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Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>S</u>
Not available.		
General	:	May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
<b>Developmental effects</b>	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

# Section 12. Ecological information

<u>Foxicity</u>			
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 - <i>Ulva pertusa</i>	96 hours
	Acute LC50 4.42589 ml/L Marine water	Crustaceans - <i>Acartia tonsa -</i> 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 - <i>Gammarus pulex</i> - 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 - <i>Daphnia cucullata</i>	48 hours
	Acute LC50 7810000 μg/l Fresh water	Daphnia - <i>Daphnia cucullata</i>	48 hours
	Acute LC50 10000 μg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 9218000 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 8800000 μg/l Fresh water	Daphnia - <i>Daphnia pulex</i>	48 hours
	Acute LC50 8000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 7280000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 8120000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
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# Section 12. Ecological information

	Acute LC50 6210000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 0.5 ml/L Marine water	Algae - Karenia brevis	96 hours
	Chronic NOEC 100 ul/L Marine water	Algae - Skeletonema costatum	72 hours
	Chronic NOEC 100 ul/L Marine water	Algae - Skeletonema costatum	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - <i>Gasterosteus aculeatus -</i> Larvae	42 days
ethyl acetate	Acute EC50 2500000 μg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 750000 μg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 154000 μg/l Fresh water	Daphnia - <i>Daphnia cucullata</i>	48 hours
	Acute LC50 212500 μg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 2400 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - <i>Pimephales promelas -</i> Embryo	32 days
xylene	Acute EC50 90 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute LC50 8.5 ppm Marine water	Crustaceans - <i>Palaemonetes</i> <i>pugio</i> - Adult	48 hours
	Acute LC50 8500 μg/l Marine water	Crustaceans - <i>Palaemonetes</i> pugio	48 hours
	Acute LC50 16940 μg/l Fresh water	Fish - Carassius auratus	96 hours
	Acute LC50 15700 μg/l Fresh water	Fish - <i>Lepomis macrochirus</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 20870 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 19000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 13400 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 - <i>Danio rerio</i>	96 hours
	Acute LC50 100000 μg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 185000 μg/l Marine water	Fish - <i>Menidia beryllina</i>	96 hours
	Acute LC50 18000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
butan-1-ol	A sute ECE0 1002 mg/l Erech water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute EC50 1983 mg/l Fresh water		
	Acute LC50 1983 mg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours

### Section 12. Ecological information

nickel	Acute EC50 2 ppm Marine water	Algae - <i>Macrocystis pyrifera -</i> Young	4 days
	Acute EC50 450 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 1000 µg/l Marine water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute IC50 0.31 mg/l Marine water	Crustaceans - <i>Americamysis</i> <i>bahia</i> - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 47.5 ng/L Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 100 mg/l Marine water	Algae - <i>Glenodinium halli</i>	72 hours
	Chronic NOEC 3.5 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
acetone	-0.23	-	Low
ethyl acetate	0.68	30	Low
xylene	3.12	8.1 to 25.9	Low
n-butyl acetate	2.3	-	Low
butan-1-ol	1	-	Low

#### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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.

United States - RCRA Toxic hazardous waste "U" List

# Section 13. Disposal considerations

Ingredient	CAS #	Status	Reference number
Acetone (I)	67-64-1	Listed	U002
Ethyl acetate (I)	141-78-6	Listed	U112
Xylene	1330-20-7	Listed	U239
1-Butanol (I)	71-36-3	Listed	U031

# Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	ΙΑΤΑ
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	Aerosols	AEROSOLS	AEROSOLES	AEROSOLS	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
	Additional informationDOT Classification: Reportable quantity 1250 lbs / 567.5 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. Limited quantity Yes. Packaging instruction Exceptions: 306. Non-bulk: None. Bulk: None. Quantity limitation Passenger aircraft/rail: 75 kg. Cargo aircraft: 150 kg. Special provisions N82TDG Classification: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2). Explosive Limit and Limited Quantity Index 1 Passenger Carrying Road or Rail Index 75 Special provisions 80, 107Mexico Classification: Special provisions 63, 190, 277, 327, 344				
IMDG		rgency schedules F cial provisions 63, 1		31, 959	
<ul> <li>IATA : <u>Quantity limitation</u> Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 20 Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y203. <u>Special provisions</u> A145, A167, A802</li> </ul>					
Special precautio	<b>pecial precautions for user : Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do i event of an accident or spillage.				
Transport in bulk to IMO instrument	ansport in bulk according : Not available. IMO instruments				

# Section 15. Regulatory information

0				
U.S. Federal regulations :		TSCA 8(a) CDR Exempt/Partial exemption: Not determined		
		Clean Water Act (CWA) 307: Nickel		
		Clean Water Act (CWA) 311: xylene; n-butyl acetate		
		Clean Air Act (CAA) 112 regulated flammable substances: dimethyl ether		
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Listed		
Clean Air Act Section 602 Class I Substances	:	Not listed		
Clean Air Act Section 602 Class II Substances	:	Not listed		
DEA List I Chemicals (Precursor Chemicals)	:	Not listed		
DEA List II Chemicals (Essential Chemicals)	:	Not listed		
<u>SARA 302/304</u>				
Composition/information	on	ingredients		
No products were found.				
SARA 304 RQ	:	Not applicable.		
<u>SARA 311/312</u>				
Classification		FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2		

#### **Composition/information on ingredients**

Name	%	Classification	
dimethyl ether	≥50 - ≤75	FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Compressed gas	
acetone	≤10	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE (Narcotic effects) - Category 3	
ethyl acetate	≤10	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	
xylene	≤10	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1	
n-butyl acetate	≤10	FLAMMABLE LIQUIDS - Category 3	
te of issue/Date of revision	: 11/22/2023 Date	e of previous issue : No previous validation Version : 1.04 15/18	

## Section 15. Regulatory information

		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
butan-1-ol	<3	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
nickel	<1	SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

#### <u>SARA 313</u>

	Product name	CAS number	%
Form R - Reporting requirements	xylene	1330-20-7	≤10
	butan-1-ol	71-36-3	<3
	Nickel	7440-02-0	<1
Supplier notification	xylene	1330-20-7	≤10
	butan-1-ol	71-36-3	<3
	Nickel	7440-02-0	<1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### State regulations

Massachusetts	: The following components are listed: METHYL ETHER; ACETONE; ETHYL ACETATE; XYLENE; BUTYL ACETATE; N-BUTYL ALCOHOL
New York	<ul> <li>The following components are listed: Acetone; Ethyl acetate; Xylene mixed; Butyl acetate; Butyl alcohol</li> </ul>
New Jersey	<ul> <li>The following components are listed: DIMETHYL ETHER; ACETONE; ETHYL ACETATE; XYLENES; n-BUTYL ACETATE; n-BUTYL ALCOHOL; NICKEL</li> </ul>
Pennsylvania	<ul> <li>The following components are listed: METHANE, OXYBIS-; 2-PROPANONE; ACETIC ACID ETHYL ESTER; BENZENE, DIMETHYL-; ACETIC ACID, BUTYL ESTER; 1-BUTANOL</li> </ul>

#### California Prop. 65

WARNING: This product can expose you to Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Nickel	-	-

#### 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.

# Section 15. Regulatory information

#### 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.
Turkey	: All components are listed or exempted.
United States	: All components are active or exempted.
Viet Nam	: All components are listed or exempted.

### Section 16. Other information

#### Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

#### National Fire Protection Association (U.S.A.)



#### Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	On basis of test data
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -	Calculation method
Category 3	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

# Section 16. Other information

History	
Date of printing	: 11/28/2023
Date of issue/Date of revision	: 11/22/2023
Date of previous issue	: No previous validation
Version	: 1.04
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations
Defenses	

**References** : Not available.

Indicates information that has changed from previously issued version.

#### 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.