

SAFETY DATA SHEET

United States

Section 1. Identification Product name

HiTrap[™] TALON® crude, 1 ml, 1 x 1 ml

Catalogue Number 29048565

Other means of identification Product type

Not available. Liquid.

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

Identified uses

Analytical chemistry. Liquid chromatography. Scientific research and development Industrial applications: Analytical chemistry. Liquid chromatography. Scientific research and development.

Supplier

Cytiva Amersham Place Little Chalfont Buckinghamshire HP7 9NA United Kingdom +44 0800 515 313 Cytiva USA 100 Results Way Marlborough, MA 01752 1-800-526-3593

In case of emergency

INFOTRAC - 24 Hour number: 1-800-535-5053 Outside of the United States, call 24 Hour number: 001-352-323-3500 (Call Collect)

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
 FLAMMABLE LIQUIDS - Category 3 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 1B

 GHS label elements Hazard pictograms
 Image: Communication Standard (29 CFR 1910)

Signal word Hazard statements Danger Flammable liquid and vapor. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer. May damage fertility or the unborn child.

Precautionary statements



HiTrap™ TALON® crude, 1 ml, 1 x 1 ml

Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves: 1 - 4 hours (breakthrough time): butyl rubber, neoprene. Wear protective clothing: Recommended: lab coat. Wear eye or face protection: Recommended: safety glasses with side-shields. Wear respiratory protection: Recommended: A respirator is not needed under normal and intended conditions of product use Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Avoid breathing vapor. Contaminated work clothing must not be allowed out of the workplace.
Response	IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.
Storage	Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	None known.

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification	Mixture Not available.		
CAS number/other identifiers CAS number	Not applicable.		
Ingredient name ethanol methanol cobalt		% 14 - 19 1 0.1 - 0.2	CAS number 64-17-5 67-56-1 7440-48-4

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

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. In the event of any complaints or symptoms, avoid further exposure.
Skin contact	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. 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.
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. 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/effe	cts, acute and delayed

Most important symptoms/effects, acute and delayed Potential acute health effects

Potential acute health ef	tects
Eye contact	No known significant effects or critical hazards.
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	May cause an allergic skin reaction.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/syr	nptoms

Eye contact

No specific data.



Page: 2/11 Validation date 4 October 2023

	, 1 x 1 m 23040003
Inhalation	Adverse symptoms may include the following: wheezing and breathing difficulties asthma reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following:
	reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate med	cal attention and special treatment needed, if necessary
Notes to physician Specific treatments	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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 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.
See toxicological information	n (Section 11)

Section 5. Fire-fighting measures

Exting	uishing	media

Extinguishing metila	
Suitable extinguishing media	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	Do not use water jet.
Specific hazards arising from the chemical	Flammable liquid and vapor. 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.
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.

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. 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).
Methods and materials for contain	inment and cleaning up
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.
Large spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion- proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

29048565

Page: 3/11 Validation date 4 October 2023

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 or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
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 between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected 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. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. 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	
ethanol	

Exposure limits

ACGIH TLV (United States, 1/2022). Notes: 1996
Adoption Refers to Appendix A Carcinogens.
STEL: 1000 ppm 15 minutes. NIOSH REL (United States, 10/2020). Notes:
TWA: 1900 mg/m ³ 10 hours.
NIOSH REL (United States, 10/2020).
TWA: 1000 ppm 10 hours.
OSHA PEL (United States, 5/2018).
TWA: 1900 mg/m ³ 8 hours.
TWA: 1000 ppm 8 hours.
OSHA PEL 1989 (United States, 3/1989).
TWA: 1900 mg/m³ 8 hours.
TWA: 1000 ppm 8 hours.
ACGIH TLV (United States, 1/2022). Absorbed
through skin. Notes: Substances for which
there is a Biological Exposure Index or Indices
STEL: 328 mg/m ³ 15 minutes.
STEL: 250 ppm 15 minutes.
TWA: 262 mg/m ³ 8 hours.
TWA: 200 ppm 8 hours. NIOSH REL (United States, 10/2020). Absorbed
through skin.
STEL: 325 mg/m ³ 15 minutes.
STEL: 250 ppm 15 minutes.
TWA: 260 mg/m ³ 10 hours.
TWA: 200 ppm 10 hours.
OSHA PEL (United States, 5/2018).
TWA: 260 mg/m ³ 8 hours.
TWA: 200 ppm 8 hours.
OSHA PEL 1989 (United States, 3/1989).
Absorbed through skin. STEL: 325 mg/m ³ 15 minutes.
STEL: 250 ppm 15 minutes.
TWA: 260 mg/m ³ 8 hours.
TWA: 200 ppm 8 hours.
OSHA PEL 1989 (United States, 3/1989). Notes:
as Co
TWA: 0.05 mg/m³, (as Co) 8 hours.

methanol

cobalt



HIIrap™ IALON® crude, 1 ml, 1	x 1 ml 2904856
	OSHA PEL (United States, 5/2018). Notes: as Co
	TWA: 0.1 mg/m³, (as Co) 8 hours. NIOSH REL (United States, 10/2020). Notes: as Co
	TWA: 0.05 mg/m³, (as Co) 10 hours. Form: Dust and fumes
	ACGIH TLV (United States, 1/2022). [cobalt and inorganic compounds as Co] Skin sensitizer. Inhalation sensitizer. Notes: as Co TWA: 0.02 mg/m³, (as Co) 8 hours. Form: Inorgani ACGIH TLV (United States, 1/2022). [Hard metals containing Cobalt and Tungsten carbide as Co] Inhalation sensitizer.
	TWA: 0.005 mg/m ³ 8 hours. Form: Thoracic fraction
Biological exposure indices	
No exposure indices known.	
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 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. 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: safety glasses with side-shields. Recommended: safety glasses with side-shields
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. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 1 - 4 hours (breakthrough time): butyl rubber, neoprene
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. Recommended: lab coat
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: A respirator is not needed under normal and intended conditions of product use.
Personal protective equipment (Pictograms)	



Section 9. Physical and chemical properties

•	• •					
Appearance						
Physical state	Liquid. [and Susper	-	–			
Color	solution : Colorless.		on. : Light R	led		
Odor	Sweetish. Alcohol-li	ke. [Slight]				
Odor threshold	Not available.					
рН	5.5 to 8.5 [Conc. (%	5 w/w): 100%	[]			
Melting point/freezing point	Not available.					
Boiling point, initial boiling point, and boiling range	Not available.					
Flash point	Closed cup: 38 to 4	3°C (100.4 t	o 109.4°F)			
Burning time	Not applicable.					
Burning rate	Not applicable.					
Evaporation rate	Not available.					
Flammability	Not available.					
Lower and upper explosive (flammable) limits	Not available.					
Vapor pressure	Not available.					
		Va	por Pressu	ire at 20°C	Vapor press	ure at 50°C
	Ingredient name methanol	mm Hg 126.96	kPa 16.9	Method	mm Hg kPa	Method
	ethanol	42.95	5.7			
	water	23.8	3.2			
Relative vapor density	Not available.					
Relative density	Not available.					
Solubility(ies)						
	Media	F	Result			
	cold water hot water		asily soluble asily soluble			
Solubility in water	Not available.	La	asily soluble	-		
Miscible with water	Yes.					
Partition coefficient: n-octane						
Auto-ignition temperature	Not available.					
-	Ingredient name		°C	°F	Method	
	ethanol		455	851	DIN 51794	
	methanol		455	851	DIN 51794	
Decomposition temperature	Not available.					
SADT	Not available.					
Viscosity	Not available.					
Flow time (ISO 2431)	Not available.					
110W time (130 2431)	Not available.					

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). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity Product/ingredient name	Result		Sp	ecies	Dose	Exposure
ethanol methanol	LC50 Inhal LC50 Inhal LC50 Inhal LD50 Dern LD50 Oral	ation Gas.	•	obit	124700 mg/m ³ 145000 ppm 64000 ppm 15800 mg/kg 5600 mg/kg	4 hours 1 hours 4 hours -
cobalt	LD50 Oral		Rat		1500 mg/kg	-
Irritation/Corrosion Not available.						
Conclusion/Summary						
Skin	Repeated ex	posure may	cause skin dryness	or cracking.		
<u>Sensitization</u> Not available.						
<u>Mutagenicity</u> Not available.						
Carcinogenicity Not available.						
Classification Product/ingredient name cobalt	OSHA -	IARC 2A	NTP Reasonably antic	ipated to be a	a human carcinogen	
Reproductive toxicity Not available.						
<u>Teratogenicity</u> Not available.						
Specific target organ toxicity (s	ingle exposu	re)				
Name methanol		_	Category Category		Route of exposure	Target organs -
Specific target organ toxicity (r Not available.	epeated expo	osure)				
Aspiration hazard Not available.						
Information on the likely routes	Routes of er	itry anticipat	ed: Oral, Dermal, In	halation, Eye	S.	
of exposure						
•						
Potential acute health effects	No known si	qnificant effe	ects or critical hazar	ds.		
•		0	ects or critical hazar hma symptoms or b		culties if inhaled.	
•		llergy or ast	hma symptoms or b		culties if inhaled.	
Potential acute health effects Eye contact Inhalation	May cause a May cause a	llergy or ast n allergic sk	hma symptoms or b	reathing diffio	culties if inhaled.	
Potential acute health effects Eye contact Inhalation Skin contact Ingestion	May cause a May cause a No known si	ullergy or ast n allergic sk gnificant effe	hma symptoms or b in reaction. ects or critical hazar	reathing diffio ds.	culties if inhaled.	
Potential acute health effects Eye contact Inhalation Skin contact Ingestion Symptoms related to the physica Eye contact	May cause a May cause a No known sig al, chemical a No specific c	ullergy or ast In allergic sk gnificant effe nd toxicologi lata.	hma symptoms or b in reaction. ects or critical hazar gical characteristic	reathing diffi ds. : <u>s</u>	culties if inhaled.	
Potential acute health effects Eye contact Inhalation Skin contact Ingestion Symptoms related to the physica	May cause a May cause a No known si al, chemical a No specific c Adverse sym wheezing an asthma	allergy or ast in allergic sk gnificant effe nd toxicolo data. iptoms may d breathing	hma symptoms or b in reaction. ects or critical hazar gical characteristic include the following	reathing diffi ds. : <u>s</u>	culties if inhaled.	
Potential acute health effects Eye contact Inhalation Skin contact Ingestion Symptoms related to the physica Eye contact	May cause a May cause a No known si al. chemical a No specific c Adverse sym wheezing an asthma reduced feta increase in fo skeletal malf	llergy or ast in allergic sk gnificant effe nd toxicolog lata. nptoms may d breathing I weight etal deaths formations nptoms may	hma symptoms or b in reaction. ects or critical hazar gical characteristic include the following	reathing diffi ds. :S g:	culties if inhaled.	



HiTrap™ TALON® crude, 1 ml, 1 x 1 ml

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	t 1 ml					29048565
Ingestion	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations					
Delayed and immediate effects a	nd also chronic effects fro	om short and lo	ong term ex	<u>(posure</u>		
Short term exposure						
Potential immediate effects	Not available.					
Potential delayed effects	Not available.					
Long term exposure						
Potential immediate effects Potential delayed effects	Not available. Not available.					
Potential chronic health effects Not available.						
General Carcinogenicity Mutagenicity Reproductive toxicity	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low le May cause cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. May damage fertility or the unborn child.					very low levels
Numerical measures of toxicity						
Acute toxicity estimates						
Product/ingredient name		Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/
Media in 20% EtOH + 1% Methar	nol (TALON with 0.1 - 0.2%	15115	40395.0	N/A	453.5	I) N/A
Cobolt) - GROUP ethanol		7000	N/A	N/A	124.7	N/A
methanol cobalt		100 1500	300 N/A	64000 N/A	3 N/A	N/A N/A
Other information	Adverse symptoms include	e the following:	kidnev ahno	armalition liver at	normalitios	
Section 12. Ecological in	Adverse symptoms may in formation					
<u>Toxicity</u> Product/ingredient name	formation	nclude the follow	ving: central Spec	nervous system		Exposure
Toxicity	formation Result Acute EC50 3306 mg/l Ma Acute EC50 1074 mg/l Fr Acute EC50 9.3 mg/l Fres Acute LC50 1100000 µg Chronic NOEC 4.995 mg/ Chronic NOEC 100 ul/L F Acute EC50 16.912 mg/l I Acute LC50 3289 mg/l Fre Acute LC50 290 mg/l Fres	arine water esh water sh water /I Marine water /I Marine water resh water Marine water Marine water esh water sh water	ving: central Spec Algae Crust Daph Algae Daph Algae Crust Adult Daph Fish	ies e - Ulva pertusa taceans - Cypris s nia - Daphnia ma - Alburnus alburn e - Ulva pertusa inia - Daphnia ma taceans - Crango taceans - Crango nia - Daphnia ma - Danio rerio - Eg	depression subglobosa agna us agna - Neonate n crangon - agna - Neonate	96 hours 48 hours 48 hours 96 hours 96 hours 21 days 96 hours 48 hours 48 hours 96 hours
Toxicity Product/ingredient name ethanol	formation Result Acute EC50 3306 mg/l Ma Acute EC50 1074 mg/l Fr Acute EC50 9.3 mg/l Fres Acute LC50 1100000 µg Chronic NOEC 4.995 mg/ Chronic NOEC 100 ul/L F Acute EC50 16.912 mg/l I Acute LC50 3289 mg/l Fre	arine water esh water sh water // Marine water // Marine water // Marine water Marine water Marine water esh water sh water Marine water esh water	ving: central Spec Algae Crust Daph Fish Algae Crust Adult Daph Fish Algae Daph Fish Algae Daph	ies e - Ulva pertusa taceans - Cypris s nia - Daphnia ma - Alburnus alburn e - Ulva pertusa inia - Daphnia ma taceans - Crango inia - Daphnia ma	depression subglobosa agna us agna - Neonate n crangon - agna - Neonate g agna	96 hours 48 hours 48 hours 96 hours 96 hours 21 days 96 hours 48 hours
Toxicity Product/ingredient name ethanol methanol	formation Result Acute EC50 3306 mg/l Ma Acute EC50 1074 mg/l Fr Acute EC50 9.3 mg/l Fres Acute LC50 1100000 µg Chronic NOEC 4.995 mg/ Chronic NOEC 100 ul/L F Acute EC50 16.912 mg/l I Acute LC50 2500000 µg/l Acute LC50 3289 mg/l Fres Chronic NOEC 9.96 mg/l Acute LC50 4400 µg/l Fres	arine water esh water sh water // Marine water // Marine water // Marine water Marine water Marine water esh water sh water Marine water esh water	ving: central Spec Algae Crust Daph Fish Algae Crust Adult Daph Fish Algae Daph Fish Algae Daph	ies e - Ulva pertusa taceans - Cypris s ania - Daphnia ma - Alburnus alburn e - Ulva pertusa ania - Daphnia ma taceans - Crango innia - Daphnia ma - Danio rerio - Eg e - Ulva pertusa ania - Daphnia ma	depression subglobosa agna us agna - Neonate n crangon - agna - Neonate g agna	96 hours 48 hours 96 hours 96 hours 21 days 96 hours 48 hours 48 hours 96 hours 96 hours 96 hours 96 hours 48 hours
Toxicity Product/ingredient name ethanol methanol cobalt Persistence and degradability Product/ingredient name	formation Result Acute EC50 3306 mg/l Ma Acute EC50 1074 mg/l Fr Acute EC50 9.3 mg/l Fres Acute LC50 11000000 µg Chronic NOEC 4.995 mg/ Chronic NOEC 4.995 mg/ Chronic NOEC 100 ul/L F Acute EC50 16.912 mg/l I Acute LC50 2500000 µg/l Acute LC50 3289 mg/l Fres Chronic NOEC 9.96 mg/l Acute LC50 4400 µg/l Fres Acute LC50 3.4 mg/l Fres	arine water esh water sh water // Marine water // Marine water Marine water Marine water sh water sh water Marine water esh water h water h water h water	ving: central Spec Algae Crust Daph Fish Algae Daph Algae Crust Adult Daph Fish Fish Fish	ies e - Ulva pertusa taceans - Cypris s ania - Daphnia ma - Alburnus alburn e - Ulva pertusa ania - Daphnia ma taceans - Crango innia - Daphnia ma - Danio rerio - Eg e - Ulva pertusa ania - Daphnia ma	depression subglobosa agna us agna - Neonate n crangon - agna - Neonate g agna melas	96 hours 48 hours 96 hours 96 hours 21 days 96 hours 48 hours 48 hours 96 hours 96 hours 96 hours 96 hours 48 hours
Toxicity Product/ingredient name ethanol methanol cobalt	formation Result Acute EC50 3306 mg/l Ma Acute EC50 1074 mg/l Fr Acute EC50 9.3 mg/l Fres Acute LC50 11000000 µg Chronic NOEC 4.995 mg/ Chronic NOEC 4.995 mg/ Chronic NOEC 100 ul/L F Acute EC50 16.912 mg/l I Acute LC50 2500000 µg/l Acute LC50 3289 mg/l Fres Chronic NOEC 9.96 mg/l Acute LC50 4400 µg/l Fres Acute LC50 3.4 mg/l Fres	arine water esh water sh water // Marine water // Marine water fresh water Marine water Marine water sh water sh water Marine water esh water h water h water	ving: central Spec Algae Crust Daph Fish Algae Daph Algae Crust Adult Daph Fish Fish Fish	ies e - Ulva pertusa taceans - Cypris s nia - Daphnia ma - Alburnus alburn e - Ulva pertusa taceans - Crango - ulva pertusa taceans - Crango - ulva pertusa - Danio rerio - Eg - Ulva pertusa - Danio rerio - Eg - Ulva pertusa - Danio rerio - Eg - Ulva pertusa - Danhia ma - Pimephales pro	depression subglobosa agna us agna - Neonate n crangon - agna - Neonate g agna melas	96 hours 48 hours 96 hours 96 hours 21 days 96 hours 48 hours 48 hours 96 hours 96 hours 48 hours 96 hours 96 hours 96 hours
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Section 13. Disposal considerations

Disposal methods The generation of waste should be avoided or minimized wherever possible. Disposal this environmental protection and any by-oroducet solution and any business should at all invested to the sever unless fully complexed waste disposal legislation and any multi-advoide should at all invested by waste disposal legislation and any multi-advoide should at all invested by untreaded to the sever unless fully complexed waste disposal legislation and any multi-advoide should at all invested by the sever unless fully complexed waste disposal or interactive the invested of the sever unless fully complexed waste disposal to contractor. Waste should on the disposed of runs and the invested to the sever unless fully complexed waste disposal of the safet waste disposal of	Section 13. Disposa	considerations				
Classification: ignitability United States - FCRA Toxic hazardous waste "U" List ingredient CAS # Status Reference number Methanol (I) 67-56-1 Listed U194 Section 14. Transport information Product is not regulated as dangerous goods for transport. Section 15. Regulatory information U.S. Federal regulations TSCA 8(a) CDR Exempt/Partial exemption: Not determined Clean Air Act Section 602 Class I Substances Not listed Clean Air Act Section 602 Class I Substances Not listed DEA List (Chemicals (Festorial Chemicals) Not listed DEA List (Chemicals (Essential Chemicals) Not listed DEA List (Chemicals (Essential Chemicals) Not listed SARA 302/304 Camposition/information on ingredients No products were found. SARA 311312 Classification FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (refat) - Category 4 ACUTE TOXICITY (refat) - Category 4 ACUTE TOXICITY (refat) - Category 1 SKIN SENSTIZATION -	Disposal methods	product, solutions a environmental prote requirements. Disp contractor. Waste s requirements of all a or landfill should on must be disposed of have not been clear Vapor from product container. Do not c internally. Avoid dis	nd any by-products should oction and waste disposal le ose of surplus and non-rec should not be disposed of u authorities with jurisdiction. Iy be considered when recy f in a safe way. Care shou ned or rinsed out. Empty co residues may create a high ut, weld or grind used cont	at all times com egislation and a yclable product intreated to the Waste packag ycling is not feas Id be taken whe ontainers or line nly flammable o ainers unless th	apply with the requination of the requination of the requirance of the receiver unless fully ing should be received. This materiates the read of the received	rements of authority vaste disposal v compliant with the ycled. Incineration al and its container ed containers that ne product residues. phere inside the aned thoroughly
Ingredient CAS # Status Reference number Methanol (I) 67-56-1 Listed U154 Section 14. Transport information Product is not regulated as dangerous goods for transport. Section 15. Regulatory information U.S. Federal regulations TSCA 8(a) CDR Exempt/Partial exemption: Not determined Clean Air Act Section 602 Class I Substances Not listed Clean Air Act Section 602 Class I Substances Not listed DEA List IChemicals (Precursor Chemicals) Not listed DEA List IChemicals (Precursor Chemicals) Not listed DEA List IChemicals (Essential Chemicals) Not listed SARA 302304 SaRA 304 RQ Not applicable. SARA 304 RQ Not applicable. SARA 304 RQ Not applicable. SaRA 304 RQ Not applicable. SARA 304 RQ Not applicable. SaRA 304 RQ Not category 1 TOXIC TO REPRODUCTION - Category 1 Solvi SENSITIZATION - Category 1 Solvi SENSITIZATION - Category 1 Solvi SENSITIZATION - Category 1 ACUTE TOXICITY (call - Category 3 ACUTE TOXICITY (call - Category 1 SRIN SENSITIZATION - Category 1 SRIN SENSI	Waste stream	Code: D001	bility			
Methanol (I) 07-56-1 Listed U154 Section 14. Transport information Product is not regulated as dangerous goods for transport. Section 15. Regulatory information U.S. Federal regulations TSCA 8(a) CDR Exempt/Partial exemption: Not determined Clean Air Act Section 112(b) Hazardous Air Pollutants Listed Clean Air Act Section 602 Class I Substances Not listed Clean Air Act Section 602 Class I Substances Not listed DEA List I Chemicals (Precursor Chemicals) Not listed DEA List I Chemicals (Precursor Chemicals) Not listed DEA List I Chemicals (Second Chemicals) Not listed SARA 302/304 Camposition/information on ingredients Not applicable. SARA 304 RQ Not applicable. SARA 304 RQ Not applicable. SARA 304 RQ Not applicable. SARA 304 RQ Not applicable. SARA 311/312 Classification FLAMMABLE LIQUIDS - Category 1 GARCINOGENICITY - Category 18 TOXIC TO REPRODUCTION - Category 18 COMEDITION (Information on ingredients Not applicable. Name % Classification ACUTE TOXICITY (cal) - Category 3 ACUTE TOXICITY (cal) - Category 1 GARCINOGENICITY - Category 1 SINI SENTIZATION - Cate		c hazardous waste "U" Lis	<u>t</u>	CAS #	Status	Reference
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SARA 304 RQ Not applicable. SARA 311/312 Classification FLAMMABLE LIQUIDS - Category 3 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1B TOXIC TO REPRODUCTION - Category 1B Stification Composition/information or preterments Carcinogenicity - Category 1B TOXIC TO REPRODUCTION - Category 1B Stification Mame % Classification ethanol 14 - 19 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (inhalation) - Category 1 Cobalt O.1 - 0.2 ACUTE TOXICITY (oral) - Category 1 BTOXIC TO REPRODUCTION - Category 1 GERM CELL MUTAGENICITY - Category 1 BTOXIC TO REPRODUCTION - Category 1 GERM CELL MUTAGENICITY - Category 1 BTOXIC TO REPRODUCTION - Cate	(HAPs) Clean Air Act Section 602 C Clean Air Act Section 602 C DEA List I Chemicals (Prec DEA List II Chemicals (Esse SARA 302/304	Class I Substances Class II Substances ursor Chemicals) ential Chemicals)	Not listed Not listed Not listed			
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Product nameCAS number%Form R - Reporting requirementsmethanol cobalt67-56-11Supplier notificationmethanol67-56-11	cobalt	0.1 - 0.2	ACUTE TOXICITY (RESPIRATORY SEI SKIN SENSITIZATIO GERM CELL MUTA CARCINOGENICITY	NSITIZATION - ON - Category 1 GENICITY - Ca Y - Category 1B	Category 1 tegory 2	
Form R - Reportingmethanol67-56-11requirementscobalt7440-48-40.1 - 0.2Supplier notificationmethanol67-56-11	<u>SARA 313</u>					
requirementscobalt7440-48-40.1 - 0.2Supplier notificationmethanol67-56-11						
Subble Internation	• •	cobalt		7440	-48-4	0.1 - 0.2
CARA 242 antifications much not be detected from the CRC and any convinging and redistribution of the CRC shall include convinging and				7440	-48-4	0.1 - 0.2

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.

Article Number :

29048565

Page: 9/11 Validation date 4 October 2023

			2904630		
State regulations					
Massachusetts	The following components are li	sted: ETHYL ALCOHOL; METHANOL			
New York	The following components are listed: Methanol				
New Jersey	The following components are listed: ETHYL ALCOHOL; METHYL ALCOHOL; COBALT				
Pennsylvania	The following components are li	sted: ETHANOL; METHANOL			
<u>California Prop. 65</u>					
	, which is known to the State of C	g Cobalt metal powder, which is know alifornia to cause birth defects or other			
Ingredient name		No significant risk level	Maximum acceptable dosage level		
Methanol		-	Yes.		
Cobalt metal powder		-	-		
nternational regulations		_			
Chemical Weapon Convention I	List Schedules I, II & III Chemica	lls			
Not listed.					
Montreal Protocol					
Not listed.					
Stockholm Convention on Pers Not listed.	istent Organic Pollutants				
Rotterdam Convention on Prior Not listed.	Informed Consent (PIC)				
UNECE Aarbus Protocol on PO	De and Haavy Matela				
UNECE Aarhus Protocol on PO Not listed.	<u>rs anu neavy metals</u>				
nventory list					
United States	All components are active or exe	empted.			
Canada inventory	All components are listed or exe	mpted			
	-4'	•			
Section 16. Other inform					
National Fire Protection Associat	<u>tion (U.S.A.)</u>				
	Flammab	ility			
	Health 2 0 Instat	ility/Reactivity			
	Special h	azards			
Procedure used to derive the cla	esification				
			tion		
FLAMMABLE LIQUIDS - Categor	fication	Justifica On basis of test data	tion		
RESPIRATORY SENSITIZATION		Calculation method			
SKIN SENSITIZATION - Category		Calculation method			
CARCINOGENICITY - Category 1	1B	Calculation method			
TOXIC TO REPRODUCTION - C	ategory 1B	Calculation method			
History					
Date of printing	10/4/2023				
Date of issue/Date of revision	10/4/2023				
Date of previous issue	6/8/2022				
Version	6				
Key to abbreviations	IATA = International Air Transpor IBC = Intermediate Bulk Contain IMDG = International Maritime D LogPow = logarithm of the octar	er angerous Goods			
	by the Protocol of 1978. ("Marpo N/A = Not available UN = United Nations	" = marine pollution)	און אוואסטווופט איז אוויס אוויסיווופט אוויסיוויס		

29048565



Page: 10/11 Validation date 4 October 2023

References

Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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Page: 11/11 Validation date 4 October 2023