Safety Data Sheet
acc. to OSHA HCS

Date of issue: 06/30/2026
Reviewed on 06/30/2026

*

1 Identification

· *This product is considered an article. This Safety Data Sheet is written based on the encapsulated adsorbents/media inside the product, except as noted in section 15 where components of the filter body are also considered. Section 15 includes applicable REACH and Proposition 65 notifications and warnings regarding the presence of regulated substances in the various product configurations according to REACH for components of the filter body; and according to California Proposition 65 for components of the filter body and/or impurities of the adsorbents/media inside the gas filters.*
· **Product identifier:** *Gas purifying filter*

· **Trade name: CRS ZPure™ PolyGas I Purifier**
· **Other means of identification** *See Article/Product Numbers and/or Product Descriptions*
· **Part numbers:**

202285-B	202285-B-QC	202285-SS	202285-SS-QC
202285R-B	202285R-B-QC	202285R-SS	202285R-SS-QC
202285D-B	202285D-B-QC	202285D-SS	202285D-SS-QC
202285RD-B	202285RD-B-QC	202285RD-SS	202285RD-SS-QC
202285L-B	202285L-B-QC	202285L-SS	202285L-SS-QC
202285RL-B	202285RL-B-QC	202285RL-SS	202285RL-SS-QC
202285XL-B	202285XL-B-QC	202285XL-SS	202285XL-SS-QC
202285RXL-B	202285RXL-B-QC	202285RXL-SS	202285RXL-SS-QC
202286-B	202286-B-QC	202286-SS	202286-SS-QC
202286R-B	202286R-B-QC	202286R-SS	202286R-SS-QC
202286D-B	202286D-B-QC	202286D-SS	202286D-SS-QC
202286RD-B	202286RD-B-QC	202286RD-SS	202286RD-SS-QC
202286L-B	202286L-B-QC	202286L-SS	202286L-SS-QC
202286RL-B	202286RL-B-QC	202286RL-SS	202286RL-SS-QC
202286XL-B	202286XL-B-QC	202286XL-SS	202286XL-SS-QC
202286RXL-B	202286RXL-B-QC	202286RXL-SS	202286RXL-SS-QC
	202RP1-B-QC		202RP1-SS-QC
	202RP1D-B-QC		202RP1D-SS-QC
	202RP1L-B-QC		202RP1L-SS-QC
	202RP1XL-B-QC		202RP1XL-SS-QC
991088			

· **SDS number:** *SDS-0040*
· **Application of the substance / the mixture** *Gas purification*

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Chromatography Research Supplies, Inc.
2601 Technology Drive
Louisville, KY 40299 USA
sds@chromres.com

· **Information department:** *Product safety department*
· **Emergency telephone number:**
From U.S.A., Canada, Puerto Rico and U.S. Virgin Islands
+1-502-491-6300 8 am - 5 pm East Coast U.S. Time
+1-800-255-3924 ChemTel (24 Hours) Contract Number MIS3660977
From Outside the U.S.A., Canada, Puerto Rico or U.S. Virgin Islands
+01-813-248-0585 ChemTel (24 Hours)
Additional In-Country numbers:
China: 400-120-0751; Brazil: 0-800-591-6042; India: 000-800-100-4086; Mexico: 01-800-099-0731.

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2 Hazard(s) identification

· **Classification of the substance or mixture**



GHS08

Carcinogenicity 1A H350 May cause cancer.



GHS09

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Sensitization - skin 1 H317 May cause an allergic skin reaction.

· **Label elements**
· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labeling:**
Quartz (SiO2)
tricobalt tetraoxide
nickel monoxide
· **Hazard statements**
H317 May cause an allergic skin reaction.
H350 May cause cancer.
H410 Very toxic to aquatic life with long lasting effects.
· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
If on skin: Wash with plenty of water.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Collect spillage.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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· **Information pertaining to particular dangers for man and environment:**
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 1
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *1
Fire = 1
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable

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3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**		
1344-28-1	Aluminum oxide	35-75%
7440-44-0	Carbon Consisting of: 14808-60-7 Quartz (SiO2) (<4%); 7440-48-4 cobalt (<0.1%); 13463-67-7 titanium dioxide (<0.1%)	5-35%
	Combustible Dust	
1317-38-0	copper(II) oxide	1-10%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
14808-60-7	Quartz (SiO2)	<3%
	Carcinogenicity 1A, H350	
1313-99-1	nickel monoxide	<1%
	Carcinogenicity 1A, H350; Specific target organ toxicity (repeated exposure) 1, H372; Sensitization - skin 1, H317; Aquatic Chronic 4, H413	
1308-06-1	tricobalt tetraoxide	<1%
	Carcinogenicity 1B, H350; Sensitization - skin 1, H317	

· **Additional Components**		
1318-02-1	Zeolite	10-25%
1327-43-1	Magnesium aluminosilicate clay	<10%

*
4 First-aid measures

· **Description of first aid measures**
· **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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· **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture** No further relevant information available.
· **Advice for firefighters**
· **Protective equipment:** No special measures required.

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6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required
· **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
1344-28-1	Aluminum oxide	15 mg/m³
1317-38-0	copper(II) oxide	0.75 mg/m³
14808-60-7	Quartz (SiO2)	0.075 mg/m³
1313-99-1	nickel monoxide	0.76 mg/m³
1308-06-1	tricobalt tetraoxide	0.082 mg/m³

· **PAC-2:**		
1344-28-1	Aluminum oxide	170 mg/m³
1317-38-0	copper(II) oxide	11 mg/m³
14808-60-7	Quartz (SiO2)	33 mg/m³
1313-99-1	nickel monoxide	220 mg/m³
1308-06-1	tricobalt tetraoxide	4.5 mg/m³

· **PAC-3:**		
1344-28-1	Aluminum oxide	990 mg/m³
1317-38-0	copper(II) oxide	93 mg/m³
14808-60-7	Quartz (SiO2)	200 mg/m³
1313-99-1	nickel monoxide	1,300 mg/m³
1308-06-1	tricobalt tetraoxide	27 mg/m³

· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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7 Handling and storage

· **Precautions for safe handling**
• Do not open cartridge. Contents may become hot on exposure to air or water.
Ensure good ventilation/exhaustion at the workplace.
· **Information about protection against explosions and fires:**
Keep respiratory protective device available.
Keep ignition sources away - Do not smoke.
Protect from heat.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required
· **Further information about storage conditions:** Keep receptacle tightly sealed.
· **Specific end use(s)** No further relevant information available.

*
8 Exposure controls/personal protection

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

1344-28-1 Aluminum oxide	
PEL	Long-term value: 15*; 5** mg/m³ *Total dust; ** Respirable fraction
REL	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV	Long-term value: 1* mg/m³ as Al; *as respirable fraction
14808-60-7 Quartz (SiO2)	
PEL	Long-term value: 0.05* mg/m³ *resp. dust; 30mg/m3/%SiO2+2
REL	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m³ *as respirable fraction
1313-99-1 nickel monoxide	
PEL	Long-term value: 1 mg/m³ as Ni
REL	Long-term value: 0.015 mg/m³ as Ni; See Pocket Guide App. A
TLV	Long-term value: 0.2 mg/m³ as Ni; inhalable fraction
1308-06-1 tricobalt tetraoxide	
PEL	Long-term value: 0.1* mg/m³ as Co; *for metal dust and fume

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REL	Long-term value: 0.05 mg/m³ as Co; metal dust & fume
TLV	Long-term value: (0.02) NIC-0.02* mg/m³ as Co, *inhalable; NIC-DSEN; RSEN; BEI

· **Ingredients with biological limit values:**

1308-06-1 tricobalt tetraoxide

BEI	15 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Cobalt (background) 1 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Cobalt (background, semi-quantitative)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Appropriate engineering controls** No further data; see section 7.
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:**



Tightly sealed goggles

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Color:**	Various colors
· **Odor:**	Odorless
· **Odor threshold:**	Not determined
· **Melting point/Melting range:**	Undetermined
· **Boiling point/Boiling range:**	Undetermined
· **Flammability:**	Not determined
· **Explosion limits:**	
· **Lower:**	Not determined
· **Upper:**	Not determined
· **Flash point:**	Not applicable
· **Auto igniting:**	Product is not self igniting.
· **Decomposition temperature:**	Not determined
· **pH-value:**	Not applicable
· **Viscosity:**	
· **Kinematic:**	Not applicable
· **Dynamic:**	Not applicable
· **Solubility in / Miscibility with**	
· **Water:**	Insoluble.
· **Partition coefficient (n-octanol/water):**	Not determined
· **Vapor pressure:**	Not applicable
· **Vapor pressure:**	
· **Density:**	Not determined
· **Relative density**	Not determined
· **Vapor density**	Not applicable
· **Particle characteristics**	Not determined

· **Other information**	
· **Appearance:**	
· **Form:**	Solid
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	>220 °C (>428 °F)
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Solvent content:**	
· **VOC content:**	0.00 %
· **Solids content:**	100.0 %
· **Change in condition**	
· **Evaporation rate**	Not applicable.

*
10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** • Incompatible with strong oxidizing agents.

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· **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
1318-02-1	Zeolite	3
14808-60-7	Quartz (SiO2)	1
1313-99-1	nickel monoxide	1
1308-06-1	tricobalt tetraoxide	2B

· **NTP (National Toxicology Program)**		
14808-60-7	Quartz (SiO2)	K
1313-99-1	nickel monoxide	K

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

*
12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Other adverse effects**
· **Remark:** Very toxic for fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms

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13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

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14 Transport information

· **UN-Number** · **DOT, ADR, IMDG, IATA**	Void
· **UN proper shipping name** · **DOT** · **ADR, IMDG, IATA**	Void Void
· **Transport hazard class(es)** · **DOT, ADR, IMDG** · **Class**	Void
· **IATA** · **Class**	Void • Not applicable. See note 1 below.
· **Packing group** · **DOT, ADR, IMDG, IATA**	Void
· **Environmental hazards:**	Not applicable
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable
· **Transport/Additional information:**	Note 1: Under the UN classification for activated carbon, all activated carbons have been identified as a class 4.2 product. However, this product type or an equivalent has been tested according to the "United Nations Transport of Dangerous Good"s test protocol for a "self-heating substance" (United Nations Transportation of Dangerous Goods, Manual of Tests and Criteria, Part III, Section 33.3.1.6 - Test N.4 - Test Method for Self Heating Substances) and it has been specifically determined that this product type or an equivalent does not meet the definition of a self heating substance (class 4.2) or any other hazard class, and therefore should not be listed as a DOT hazardous material.
· **Special precautions for user**	Not applicable
· **UN "Model Regulation":**	Void

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
REACH Notification: In conformance to REACH Regulation (EC) No 1907/2006 of the European Parliament and of the Council, this is notification that some components are machined from copper alloys containing lead (Brass) above the 0.1% w/w threshold, where it is an integral part of the Article. Components include the fittings and / or fitting plugs. Copper alloys such as brass in the solid form and under normal conditions do not present an inhalation,ingestion or contact health hazard of the regulated substance. Operations such as welding, excessive heating or dust generating activities,such as machining, may create a health hazard. Under normal use, these products are not designed or anticipated to release these regulated substances. Only products containing a "-B" in the part numbers listed in section 1 contain brass, see further below in this section for details regarding the occurrence of lead in the specific part number configurations.

· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**	
1344-28-1	*Aluminum oxide*
1317-38-0	*copper(II) oxide*
1313-99-1	*nickel monoxide*
1308-06-1	*tricobalt tetraoxide*

· **TSCA (Toxic Substances Control Act):**		
1344-28-1	*Aluminum oxide*	*ACTIVE*
1317-38-0	*copper(II) oxide*	*ACTIVE*
1327-43-1	*Magnesium aluminosilicate clay*	*ACTIVE*
14808-60-7	*Quartz (SiO2)*	*ACTIVE*
1313-99-1	*nickel monoxide*	*ACTIVE*
1308-06-1	*tricobalt tetraoxide*	*ACTIVE*

· **Hazardous Air Pollutants**	
1313-99-1	*nickel monoxide*
1308-06-1	*tricobalt tetraoxide*

· **Proposition 65**



California residents only: "Cancer risk from [Lead, Quartz/Crystalline Silica, Titanium oxide, Cobalt, Nickel, Nickel monoxide] and risk of reproductive harm from exposure to [Lead] - www.P65Warnings.ca.gov.

Part number configurations [including "B" in the part number] contain [Lead, Nickel] as [components of the brass fittings and/or nickel plated brass shipping plugs utilized in the consruction of the filter body].
Part number configurations [including "SS" in the part number] no longer contain [Lead, Nickel] as [components of the nickel plated brass shipping plugs utilized in the construction of the filter body]. *Only the shipping plugs of earlier generations of these products contained these substances.*
Part number configurations [including "B-QC", or "SS-QC" in the part number] contain [Nickel] as [acomponent of the nickel plated knurled nut].
All part configurations may contain [Quartz/Crystalline Silica, Titanium dioxide, Cobalt, Nickel monoxide] as [components or impurities of the adsorbents inside the filter body].

· **Chemicals known to cause cancer:**	
14808-60-7	*Quartz (SiO2)*
1313-99-1	*nickel monoxide*

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· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

1344-28-1	Aluminum oxide	A4
14808-60-7	Quartz (SiO2)	A2
1313-99-1	nickel monoxide	A1
1308-06-1	tricobalt tetraoxide	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

14808-60-7	Quartz (SiO2)
1313-99-1	nickel monoxide

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**



GHS07 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labeling:**
Quartz (SiO2)
tricobalt tetraoxide
nickel monoxide
· **Hazard statements**
H317 May cause an allergic skin reaction.
H350 May cause cancer.
H410 Very toxic to aquatic life with long lasting effects.
· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
If on skin: Wash with plenty of water.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Collect spillage.
Store locked up.

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

· **National regulations:**
· **Additional classification according to Decree on Hazardous Materials:**
Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Product safety department
· **Contact:** Product Safety Department
· **Date of previous version** 08/19/2019
· **Date of preparation** 06/30/2026
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Sensitization - skin 1: Skin sensitisation – Category 1
Carcinogenicity 1A: Carcinogenicity – Category 1A
Carcinogenicity 1B: Carcinogenicity – Category 1B
Specific target organ toxicity (repeated exposure) 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
· **** Data compared to the previous version altered.***

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