



PORSCHE

SAFETY DATA SHEET

9J1915099K Lithium Ion Batteries and Modules J1		SDS No:	00532-0398
Version: 1.06	Date of revision: 02 04 2021	US -en	

Section 1. Identification

- GHS product identifier : 9J1915099K Lithium Ion Batteries and Modules J1
- Other means of identification : 9J1915099KX; 9J1915100K; 9J1915100KX; 9J1915099KU; 9J1915100KU; 9J1915591B; 9J1915592B; 9J1915591C; 9J1915592C; 9J1915099AB; 9J1915099K; 9J1915099LU; 9J1915099LX; 9J1915099N; 9J1915100AB; 9J1915100LU; 9J1915100LX; 9J1915099MX; 9J1915100MX; 9J1915099AD; 9J1915100AD; 9J1915100AH; 9J1915099AH; 9J1915100AX; 9J1915099AX; 9J1915591G; 9J1915592G
- Product type : Note: This product is an "article" and is not an object that is required to issue Safety Data Sheets (SDS) by regulations concerning chemical substances. This SDS voluntarily offers helpful information for your safe handling and environmental care.

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

Identified uses
Professional applications: batteries and accumulators

- Supplier's details : Porsche Cars North America, inc
One Porsche Drive
USA-980 Atlanta, Georgia 30354
Tel: +1 800 255 5713
- Fax: +1 770 290 3532
safetydata@porsche.de

- Emergency telephone number : +1 703-741-5970 (24 h)
(with hours of operation)

Section 2. Hazards identification

- OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Undamaged, closed cells do not represent a danger to the health. In case of electrolyte leakage:
- Classification of the substance or mixture : ACUTE TOXICITY (oral) - Category 4
SKIN IRRITATION - Category 2
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3



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Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 79.6%
 Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 79.6%
 Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 94.6%

GHS label elements

Hazard pictograms

:

—

Signal word

: Not applicable.

Hazard statements

: Not applicable.

As an article the product does not need to be labelled in accordance with respective national laws.

Precautionary statements

Prevention

: Not applicable.

Response

: Not applicable.

Hazards not otherwise classified

: In case of electrolyte leakage: May form explosive mixtures with air. Corrosive to skin and eyes on contact.

Section 3. Composition/information on ingredients

Substance/mixture

: Article

Other means of identification

: 9J1915099KX; 9J1915100K; 9J1915100KX; 9J1915099KU; 9J1915100KU;
 9J1915591B; 9J1915592B; 9J1915591C; 9J1915592C; 9J1915099AB; 9J1915099K;
 9J1915099LU; 9J1915099LX; 9J1915099N; 9J1915100AB; 9J1915100LU;
 9J1915100LX; 9J1915099MX; 9J1915100MX; 9J1915099AD; 9J1915100AD;
 9J1915100AH; 9J1915099AH; 9J1915100AX; 9J1915099AX; 9J1915591G; 9J1915592G

CAS number/other identifiers

CAS number

: Not applicable. Article.

Ingredient name	%	CAS number
Metal Oxide	≥25 - ≤50	-
Aluminum, Copper plate and inert materials	≥25 - ≤50	-
carbon	≥25 - ≤50	7440-44-0
Electrolyte (proprietary)	≥10 - ≤25	-
copper	≤10	7440-50-8
Aluminium powder (pyrophoric)	≤5	7429-90-5
Ethene, 1,1-difluoro-, homopolymer	≤3	24937-79-9

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 as hazardous to health or the environment and hence require reporting in this section.



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

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : The following first aid measures are required only in case of exposure to interior battery components after damage of the external battery casing. Undamaged, closed cells do not represent a danger to the health.
Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
- Inhalation** : The following first aid measures are required only in case of exposure to interior battery components after damage of the external battery casing. Undamaged, closed cells do not represent a danger to the health.
Get medical attention immediately. Call a poison center or physician. 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. 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** : The following first aid measures are required only in case of exposure to interior battery components after damage of the external battery casing. Undamaged, closed cells do not represent a danger to the health.
Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : The following first aid measures are required only in case of exposure to interior battery components after damage of the external battery casing. Undamaged, closed cells do not represent a danger to the health. Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Chemical burns must be treated promptly by a 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

Potential acute health effects

- Eye contact** : Causes serious eye damage.



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Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure signs/symptoms	
Eye contact	: In case of electrolyte leakage: Adverse symptoms may include the following: pain watering redness
Inhalation	: In case of electrolyte leakage: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: In case of electrolyte leakage: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: In case of electrolyte leakage: Adverse symptoms may include the following: stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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 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 (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	: In case of fire, use water spray (fog), foam, dry chemical or CO ₂ . Metal fire extinguishing powder or dry sand have to be used.
Unsuitable extinguishing media	: Do not use water jet.

Specific hazards arising from the chemical	: In case of fire, corrosive vapors may be released and controlled degassing may occur.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide Hydrogen fluoride (HF). Pyrolysis products, toxic.



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- 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.
- 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. 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 containment and cleaning up

- Small spill : In case of electrolyte leakage: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill : In case of electrolyte leakage: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures : Avoid short circuiting the cell. Avoid mechanical damage of the cell. Do not open or disassemble. 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. 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 ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.



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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: -20 to 35°C (-4 to 95°F). Store in accordance with local regulations. 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. 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	Exposure limits
Metal Oxide Aluminum, Copper plate and inert materials carbon Electrolyte (proprietary) copper	None. None. None. None. ACGIH TLV (United States, 3/2019). TWA: 1 mg/m ³ , (as Cu) 8 hours. Form: Dust and mist TWA: 0.2 mg/m ³ 8 hours. Form: Fume OSHA PEL 1989 (United States, 3/1989). TWA: 1 mg/m ³ , (as Cu) 8 hours. Form: Dusts and Mists TWA: 0.1 mg/m ³ , (as Cu) 8 hours. Form: Fume NIOSH REL (United States, 10/2016). TWA: 1 mg/m ³ , (as Cu) 10 hours. Form: Dusts and Mists OSHA PEL (United States, 5/2018). TWA: 1 mg/m ³ 8 hours. Form: Dusts and Mists TWA: 0.1 mg/m ³ 8 hours. Form: Fume
Aluminium powder (pyrophoric)	OSHA PEL 1989 (United States, 3/1989). TWA: 15 mg/m ³ , (as Al) 8 hours. Form: Dust TWA: 5 mg/m ³ , (as Al) 8 hours. Form: Pyrophoric TWA: 5 mg/m ³ , (as Al) 8 hours. Form: Respirable fraction TWA: 5 mg/m ³ , (as Al) 8 hours. Form: Welding fume NIOSH REL (United States, 10/2016). TWA: 5 mg/m ³ 10 hours. Form: Respirable fraction



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Ethene, 1,1-difluoro-, homopolymer	<p>TWA: 10 mg/m³ 10 hours. Form: Total OSHA PEL (United States, 6/2016). TWA: 5 mg/m³, (as Al) 8 hours. Form: Respirable fraction TWA: 15 mg/m³, (as Al) 8 hours. Form: Total dust ACGIH TLV (United States, 3/2017). TWA: 1 mg/m³ 8 hours. Form: Respirable fraction None.</p>
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- Appropriate engineering controls : In case of electrolyte leakage: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls : In case of electrolyte leakage: 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 : In case of electrolyte leakage: 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 : In case of electrolyte leakage: 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: In case of electrolyte leakage: Tightly-fitting goggles (EN166)
- Skin protection
 - Hand protection : In case of electrolyte leakage: 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 hour (breakthrough time): Recommended: natural rubber (latex)
 - Body protection : In case of electrolyte leakage: 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. Recommended: In case of electrolyte leakage: Footwear (shoes, boots): Rubber articles. Acid-resistant clothing.



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- Other skin protection : In case of electrolyte leakage: 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 : In case of electrolyte leakage: 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.

Section 9. Physical and chemical properties

Appearance

- Physical state : Solid.
- Color : Not available.
- Odor : Odorless.
- Odor threshold : Not available.
- pH : Not available.
- Melting point : Not available.
- Boiling point : Not available.
- Flash point : Not applicable.
- Evaporation rate : Not available.
- Flammability (solid, gas) : Not applicable.
- Lower and upper explosive (flammable) limits : Not available.
- Vapor pressure : Not available.
- Vapor density : Not available.
- Relative density : Not applicable.
- Density : Not available.
- Solubility : Insoluble in the following materials: cold water and hot water.
- Solubility in water (g/l) : Not available.
- Partition coefficient: n-octanol/ water : Not available.
- Auto-ignition temperature : Not applicable.
- Decomposition temperature : Not available.
- Viscosity : Not available.
- Flow time (ISO 2431) : Not available.



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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 : Electrolyte and electrodes may react with water or moisture.
- Conditions to avoid : Keep away from heat and flame.
- Incompatible materials : water
moisture
- 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
carbon	LD50 Oral	Rat	>10000 mg/kg	-
9J1915099K Lithium Ion Batteries and Modules J1	LD50 Oral	Rat	2000 mg/kg	-

Conclusion/Summary : No additional information.

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin : No additional information.

Eyes : No additional information.

Respiratory : No additional information.

Sensitization

Not available.

Conclusion/Summary

Skin : No additional information.

Respiratory : No additional information.

Mutagenicity

Not available.

Conclusion/Summary : No additional information.

Carcinogenicity



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Not available.

Conclusion/Summary : No additional information.

Reproductive toxicity

Not available.

Conclusion/Summary : No additional information.

Teratogenicity

Not available.

Conclusion/Summary : No additional information.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
carbon	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential chronic health effects

Not available.

Conclusion/Summary : No additional information.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : May cause 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.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates



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Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
9J1915099K Lithium Ion Batteries and Modules J1 Electrolyte (proprietary)	2000 500	3847.8 1100	N/A N/A	N/A N/A	N/A N/A

Other information : No additional information.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
copper	Acute EC50 1.6 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Chronic NOEC 0.02 mg/l Fresh water	Crustaceans - Cambarus bartonii - Mature	21 days
Aluminium powder (pyrophoric)	Chronic NOEC 9 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days

Conclusion/Summary : No additional information.

Persistence and degradability

Conclusion/Summary : No additional information.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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. 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. Care should be taken when handling emptied containers that









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have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	UN3480	UN3480	UN3480	UN3480	UN3480	UN3480
UN proper shipping name	Lithium ion batteries	LITHIUM ION BATTERIES	BATERIAS DE ION LITIO	LITHIUM ION BATTERIES	LITHIUM ION BATTERIES	Lithium ion batteries
Transport hazard class(es)	9a 	9a 	9a 	9a 	9a 	9a 
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.

Additional information

- DOT Classification : **Limited quantity** No.
Packaging instruction Exceptions: 185. Non-bulk: 185. Bulk: 185.
Quantity limitation Passenger aircraft/rail: 5 kg. Cargo aircraft: 35 kg.
Special provisions 422, A51, A54
- TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9).
Explosive Limit and Limited Quantity Index 0
Passenger Carrying Vessel Index 5
Passenger Carrying Road or Rail Index 5
Special provisions 34, 123, 137, 138, 149, 159
- Mexico Classification : **Special provisions** 230, 310, 348
- ADR/RID : **Limited quantity** 0
Special provisions 230, 310, 348, 376, 377, 387, 636
Tunnel code (E)
- IMDG : **Emergency schedules** F-A, S-I
Special provisions 230, 310, 348, 376, 377, 384
- IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.
Quantity limitation Passenger and Cargo Aircraft: Forbidden. Packaging instructions: Forbidden. Cargo Aircraft Only: Packaging instructions: See 965. Limited Quantities - Passenger Aircraft: Forbidden. Packaging instructions: Forbidden.
Special provisions A88, A99, A154, A164, A183, A201, A206, A331, A802



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Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption:** Not applicable.
Clean Water Act (CWA) 307: copper

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not 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

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : ACUTE TOXICITY (oral) - Category 4
SKIN IRRITATION - Category 2
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Composition/information on ingredients



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Name	%	Classification
carbon	≥25 - ≤50	SELF-HEATING SUBSTANCES AND MIXTURES - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Electrolyte (proprietary)	≥10 - ≤25	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1
Aluminium powder (pyrophoric)	≤5	CARCINOGENICITY - Category 1B FLAMMABLE SOLIDS - Category 1 SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 2

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	copper	7440-50-8	≤10
	Aluminium powder (pyrophoric)	7429-90-5	≤5
Supplier notification	copper	7440-50-8	≤10
	Aluminium powder (pyrophoric)	7429-90-5	≤5

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: COPPER; ALUMINUM
- New York : The following components are listed: Copper
- New Jersey : The following components are listed: COPPER; ALUMINUM
- Pennsylvania : The following components are listed: COPPER FUME; ALUMINUM
- California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.

Montreal Protocol
Not listed.

Stockholm Convention on Persistent Organic Pollutants
Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.



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Inventory list

United States : All components are listed or exempted.

Section 16. Other information

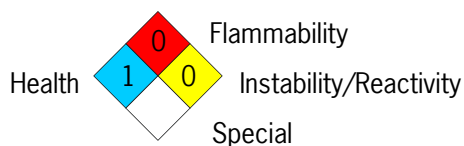
Hazardous Material Information System (U.S.A.)

Health	*	3
Flammability		0
Physical hazards		0

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.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (oral) - Category 4	On basis of test data
SKIN IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method

History

Date of printing : 02 04 2021

Date of issue/Date of revision : 02 04 2021



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Date of previous issue : 02 04 2021
Version : 1.06
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 = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
N/A = Not available
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)
UN = United Nations
References : Not available.

☑ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. 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.