

CANON OPTRON INC.
 SDS Number: EC08
 Product Name: Cryolite

SAFETY DATA SHEET

rev. 6.5 Date of Issue 2015/1/13
 Revised Date 2018/6/6

SECTION 1 Chemicals and company identification

Chemical identifier	Cryolite
SDS number	EC08
Company name	CANON OPTRON INC.
Address	1744-1, Kanakubo, Yuki-shi, Ibaraki-ken, 307-0015 Japan
Section name	Internal Control Promotion Div.
Telephone number	+81-296-21-3700 (Sales Dept.)
Fax number	+81-296-21-3770
Emergency telephone number	+81-296-21-3700 (Sales Dept.)
Recommended uses and restrictions on use	Vacuum deposition material

SECTION 2 Hazards identification

GHS Classification (A classification by JIS Z 7252 "classification methods such as chemical substances based on GHS")

No data available

Label element

Pictogram (Symbol)	No data available
Signal word	No data available
Hazard statement	No data available

Precautionary statement

【Safety measures】 Obtain special instructions before use.
 Wash hands thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Do not breathe dust/fume/gas/mist/vapours/spray.

【First-aid measures】

If swallowed:

Call a poison center or doctor/physician if you feel unwell.
 Rinse mouth.

If in eyes:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call poison center or doctor/physician

【Storage】

Store in a well-ventilated place, keep container tightly closed.
 Store locked up.

【Disposal】

Dispose of contents/container in accordance with national regulations.

SECTION 3 Composition and information ingredients

Substance/Mixture	Substance
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Chemical name or generic name	<i>Cryolite</i>
Chemical formula	<i>Cryolite(Na₃AlF₆)</i>
CAS No.	<i>15096-52-3</i>
Concentration or concentration range	99.9%<
TSCA Inventory	<i>Cryolite (Na₃(AlF₆))</i>
EINECS number	<i>239-148-8</i>
Radioactive information	It does not use a radioactive substance as a material. Thus, evidence of ionizing radiation occurs is not present.

SECTION 4 First-aid measures

Inhalation	It is possible to move to fresh air victim immediately and keep at rest in a position comfortable for breathing. If you feel bad, you should contact your doctor.
Skin	Take off all contaminated clothing immediately Remove /. I flush for 15 minutes or more with soap and plenty of water. If symptoms blisters and pain comes, get medical attention if necessary.
Eye	Be flush eyes for at least 15 minutes with clean water immediately. If you are using the contact lenses, as long as it is not fixed, it can be washed and removed. Be subject to medical attention without fail.
Ingestion	Rinse mouth immediately. Be subject to medical attention without fail.
Protection of first aiders	Rescuers Wear protective equipment protective eyewear, such as protective gloves.

SECTION 5 Fire-fighting measures

Extinguishing media	The product itself does not burn.
Extinguishing media are unsuitable	No data available
Specific hazards	No data available
Specific extinguishing methods	The movable container, and transferred to a safe place as soon as possible in case of surrounding fire.
Protection of fire-fighters	In fire fighting, I want to wear (gloves, glasses, mask) the appropriate protective equipment.

SECTION 6 Accidental release measures

Personal precautions,protective equipment,and emergencyprocedures	Wear it (which specify what suited the nature of the product) protective equipment, such as spray or on skin, we do not want to dust inhalation, the gas at the time of work.
Environmental precautions	Do not flowing in rivers and sewage directly spillage.
Methods and materials for containment and methods and materials for cleaning up	And collected in drums or paper bags are collected to wear or have rake those leaked. I to absorb in saw-dust or sediment residue content of the small amount of recovery after.

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Secondary disaster prevention measures No data available

SECTION 7 Handling and storage precautions

Handling

Technical measures I wear the appropriate protective equipment safety glasses, protective gloves, etc.. After handling Wash hands, face, etc., and gargle.

Safety handling precautions When handling, to handle in place with equipment for general ventilation or local exhaust under.

Storage

Safe storage conditions Store tightly closed container in a well-ventilated place.

Safety packaging material No data available

SECTION 8 Exposure controls and personal protection

Cryolite(Na₃AlF₆)

Permissible concentration

ACGIH

No data available

Engineering controls

To use devices that are sealed as much as possible, local exhaust ventilation or equipment.

Personal protective equipment

Respiratory protection Dust mask

Hand protection Protective glove

Eye protection Dust-proof glasses

Skin and body protection Protective clothing

SECTION 9 Physical and chemical properties

Appearance

Physical state Solid

Form Granular

Colour White

Odour None

Cryolite(Na₃AlF₆)

pH

No data available

Melting point/Freezing point

1000 °C

Boiling point/Initial boiling point and boiling range

No data available

Flash point

None

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Evaporation rate	<i>No data available</i>
Flammability (solid, gas)	<i>No data available</i>
Explosive limits	
LEL	<i>None</i>
UEL	<i>None</i>
Vapour pressure	<i>No data available</i>
Vapour density (air = 1)	<i>No data available</i>
Specific gravity (Relative density)	<i>2.95</i>
(Density)	
Solubility	
Water	<i>No data available</i>
Other solvents	<i>No data available</i>
n-octanol/Water partition coefficient	<i>No data available</i>
Auto-ignition temperature	<i>No data available</i>
Decomposition temperature	<i>No data available</i>
Viscosity (Coefficient of viscosity)	<i>No data available</i>
Other data	<i>None</i>

SECTION 10 Stability and reactivity

Cryolite(Na₃AlF₆)

Reactivity	<i>No data available</i>
Chemical stability	<i>It is stable in storage conditions and normal handling.</i>
Hazardous reactions	<i>No data available</i>
Conditions to avoid	<i>High-temperature and humidity</i>
Incompatible materials	<i>No data available</i>
Hazardous decomposition products	<i>It occurs with fluorine gas, hydrogen fluoride gas when I heat.</i>

SECTION 11 Hazard information

Cryolite(Na₃AlF₆)

Acute toxicity(oral)	<i>Oral - Rat LD50: >5g/kg Oral - Rat LDLo: 9g/kg</i>
Acute toxicity(dermal)	<i>No data available</i>
Acute toxicity(inhalation)	<i>No data available</i>
Skin corrosion/irritation	<i>No data available</i>
Eye damage/eye irritation	<i>No data available</i>

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Respiratory sensitization/Skin sensitization	<i>Nose, throat, trachea is stimulated by inhalation of dust.</i>
Germ cell mutagenicity	<i>No data available</i>
Carcinogenicity	<i>No data available</i>
Reproductive toxicity	<i>No data available</i>
Specific target organ toxicity(single exposure)	<i>No data available</i>
Specific target organ toxicity(repeated exposure)	<i>No data available</i>
Aspiration hazard	<i>No data available</i>
Others	None

SECTION 12 Ecological information

Cryolite(Na₃AlF₆)

Ecotoxicity	
Fish	<i>No data available</i>
Crustaceantoxicity(single exposure)	<i>No data available</i>
Algae	<i>No data available</i>
Other organisms	<i>No data available</i>
Persistence and degradability	<i>No data available</i>
Bioaccumulative potential	<i>No data available</i>
Mobility in soil	<i>No data available</i>
Hazard to the ozone layer	<i>No data available</i>
Others	<i>No data available</i>

SECTION 13 Notes on disposal

Waste from residues	Entrust the process to industrial waste disposal contractor has received a license from the governor.
Contaminated container and contaminated packaging	Recycle or in the clean container and take appropriate disposal in accordance with the criteria of the relevant legislation sequence municipality.

SECTION 14 Transport information

Cryolite(Na₃AlF₆)

International regulation	
UN classification	<i>Not applicable</i>
UN number	<i>None</i>
UN proper shipping name	<i>None</i>
Packing group	<i>Not applicable</i>

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Japanese laws and regulations	None
Conditions and specific safety measures of transport	No data available

SECTION 15 Regulatory information (Japan)

Cryolite(Na₃AlF₆)

PRTR Law	No data available
Occupational Safety and Health Law	No data available
Poisonous and Deleterious Substances control Law	No data available
Explosives control Law	No data available
High-pressure gas security Law	No data available
Fire fighting Law	No data available
Chemical substances control Law	No data available
Ship safety Law	No data available
Aviation Law	No data available
Prevention of marine pollution Law	No data available
Pneumoconiosis Law	No data available
Note	Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

SECTION 16 Other information

The Safety Data Sheet (SDS) has been prepared based on currently available materials, information and data, and may be revised based on new information. Further, the important points in the SDS are made for the purpose of normal handling.

When handling the user product in a specialized manner, take the appropriate safety measures for the application or method.

Further, Canon Optron Inc. has paid sufficient attention to the described contents of the SDS, but does not guarantee the accuracy of its contents.

Literature Reference

[References]

Industrial Safety and Health Act All Data of MSDS Target Substances: The Chemical Daily Co., Ltd (2003)

Poisonous and Deleterious Substances Control Act All Data of MSDS Target Substances: The Chemical Daily Co., Ltd (2003)

Pollutant Release and Transfer Register All Data of MSDS Target Substances: The Chemical Daily Co., Ltd (2003)

Recommendations for Allowable Concentrations (Fiscal 2017): Japan Society for Occupational Health Journal of Occupational Health, Vol. 59 2017

[WEB site]

National Institute of Technology and Evaluation Homepage

Japan Advanced Information Center of Safety and Health Homepage

Ministry of Health, Labour and Welfare Homepage

[Regulatory review Tools]

ezCRIC (Japan Chemical Database Ltd)