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Product Name: Cryolite

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SECTION 1 Chemicals and company identification

Product code Cryolite

EC08

Company name CANON OPTRON INC.

Address 1744-1, Kanakubo, Yuki-shi, Ibaraki-ken, 307-0015 Japan

Section name

Sales Department

Telephone number

+81-296-21-3700

Fax number

+81-296-21-3770

Emergency telephone tumber

+81-296-21-3700

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")

Physical hazards Explosives Classification not possible

Flammable gases

Aerosols

Oxidizing gases

Not applicable

Not applicable

Not applicable

Not applicable

Flammable liquids

Not applicable

Flammable solids

Classification not possible

Self-reactive substances and mixtures

Classification not possible

Pyrophoric liquids Not applicable

Pyrophoric solids

Classification not possible

Self-heating substances and mixtures

Classification not possible

Classification not possible

Classification not possible

contact with water,emit flammable

gases

Oxidizing liquids Not applicable

Oxidizing solids

Classification not possible

Corrosive to metals

Classification not possible

Corrosive to metals

Classification not possible

Classification not possible

Classification not possible

Classification not possible

Customary Classification not possible

Health hazards Acute toxicity(oral) Classification not possible

Acute toxicity(dermal) Classification not possible

Acute toxicity (Inhalation: Gases)

Not applicable

Acute toxicity (Inhalation: Vapors)

Category 4

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Acute toxicity (Inhalation: Dusts and

mists)

Category 4

Skin corrosion/irritation Classification not possible

Serious eye damage/eye irritation Classification not possible

Respiratory sensitization Classification not possible

Skin sensitization Classification not possible

Germ cell mutagenicity Classification not possible

Carcinogenicity Classification not possible

Reproductive toxicity Classification not possible

Reproductive toxicity, effects on or via

lactation

Classification not possible

Specific target organ toxicity(single

exposure)

Classification not possible

Specific target organ toxicity(repeated

exposure)

Category 1

Aspiration hazard

Classification not possible

Environmental hazards Hazardous to the aquatic environment

Short-term(acute)

Classification not possible

Hazardous to the aquatic environment

Long-term(chronic)

Category 2

Hazardous to the ozone layer

Classification not possible

Label elements

hazard Pictograms





Signal word

Danger

Dangerous goods hazard

information

Harmful if inhaled.

Causes damage to organs through prolonged or repeated exposure No organ

information.

Precautionary statements

[Safety measures]

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

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[First-aid measures] IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Get medical advice/attention if you feel unwell.

Collect spillage.

[Storage]

[Disposal] Dispose of contents/container in accordance with national regulations.

[Other hazards]

SECTION 3 Composition/information on ingredients

Substance/Mixture Substance

Chemical name Crvolite

Cryolite(Na3AIF6) Chemical formula

Concentration or concentration

range

99.9%<

15096-52-3 CAS No.

Cryolite (Na3(AIF6)) TSCA Inventry

239-148-8 **EINECS** number

Radioactive information Radioactive substances are not used as the material. Therefore, there is no

reason that ionizing radiation would be generated.

SECTION 4 First aid measures

Inhalation Remove person to fresh air and keep comfortable for breathing.

Get medical advice/attention if you feel unwell.

Skin contact Take off immediately all contaminated clothing. Rinse affected areas with

water/shower.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: : Get medical advice/attention.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rising.

If eye irritation persists: Get medical advice/attention.

Ingestion Rinse mouth.

Get medical advice/attention.

Most important symptoms and effects, both acute and delayed

No data available

Protection of first aiders Rescuers, wear suitable protective equipment as the situation demands.

No data available Special precautions for physicians

SECTION 5 Firefighting measures



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Suitable extinguishing media

This product itself is not flammable.

Unsuitable extinguishing media

No data available

Specific hazards

No data available

Specific extinguishing methods

In the case of a fire in the periphery, the portable container is quickly moved to a

safe place.

Special protective equipment for

firefighters

Wear suitable protective equipment (gloves, glasses and a mask) in fire-fighting.

SECTION 6 Accidental release measures

Personal precautions, protective equipment, and emergency

procedures

Protection equipment (specified as those in which the properties of the product are suitable) worn during operation so that airborne droplets, etc., do not adhere

to the skin and dusts and gases are not absorbed.

Environmental precautions

The leakage may not directly flow into rivers or sewage.

Methods and material for containment and cleaning up

The leaked material is scooped up, or swept up and gathered to be recovered in a paper bag or a drum.

paper bag or a drum.

After recovery, a small amount of the residue is absorbed in sediment, sawdust,

etc.

Secondary disaster prevention

measures

No data available

SECTION 7 Handling and storage

Precautions for safe handling

protection" and wear protective equipment.

Safety handling precautions

Handling work must be practiced in a room where there is a local or total

ventilation facility.

Avoidance of contact

Refer to "10. Stability and reactivity."

Hygiene measures

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Safe storage conditions

Store in a well-ventilated place. Keep container tightly closed.

Safety packaging material

No data available

SECTION 8 Exposure controls/personal protection

Cryolite(Na3AlF6)

Permissible concentration

ACGIH

No data available



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Appropriate engineering controls

Use sealed devices, equipment, or a local exhaust ventilation as much as

possible.

Individual protection measures, such as personal protective equipment

Respiratory protection Dustproof mask Hand protection Protective gloves Eve/face protection Dust-proof glasses Skin protection Protective clothing

SECTION 9 Physical and chemical properties

Appearance

Physical state Solid Form Granular Colour White Odour None

Cryolite(Na3AIF6)

1000 °C

Melting point/freezing point Boiling point or initial boiling point No data available and boiling range No data available Flammability Upper/lower flammability or No data available explosive limits Flash point No data available No data available Auto-ignition temperature Decomposition temperature No data available

No data available рΗ Kinematic viscosity No data available

Solubility

Water No data available Other solvents No data available No data available

Partition coefficient: noctanol/water

Vapour pressure No data available

2.95

Density and/or relative density

(Density)

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Relative vapor density Particle characteristics

Other information

No data available No data available

No data available

SECTION 10 Stability and reactivity

Cryolite(Na3AIF6)

Reactivity

Chemical stability

Possibility of hazardous reactions

Conditions to avoid

Incompatible materials

Hazardous decomposition products

No data available

It is stable in storage conditions and normal handling.

No data available

High-temperature and humidity

No data available

It occurs with fluorine gas, hydrogen fluoride gas when It heat.

SECTION 11 Toxicological information

Cryolite(Na3AIF6)

Acute toxicity(oral)

Oral - Rat LD50:>5g/kg Oral - Rat LDLo:9g/kg

Acute toxicity(dermal)

No data available

Acute toxicity (Inhalation:

Vapours)

No data available

No data available

Acute toxicity (Inhalation: Dusts

Acute toxicity (Inhalation: Gases)

and mists)

No data available

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity(single

exposure)

No data available

No data available

Nose, throat, trachea is stimulated by inhalation of dust.

No data available

No data available

No data available

No data available

Specific target organ

toxicity(repeated exposure)

No data available

Aspiration hazard Other information

SECTION 12

No data available No data available

Ecological information

Cryolite(Na3AIF6)

Canon OPTRON, INC.

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Toxicity

Hazardous to the aquatic environment Shortterm(acute) Hazardous to the aquatic

environment Longterm(chronic)

Persistence and degradablility

Bioaccumulative potential

Mobility in soil

Hazard to the ozone layer

Other adverse effects

No data available

SECTION 13 Disposal considerations

> Waste treatment methods Process is contracted to industrial waste disposers who received approval of a

prefectural governor.

Contaminated container and contaminated packaging

The container is recycled after being cleaned, or is appropriately processed

according to the standards of related laws and regulations.

When disposing of empty containers, the contents should be completely removed.

SECTION 14 Transport information

Cryolite(Na3AIF6)

International regulation

UN number

UN proper shipping name

UN classification

Transport hazard class

Packing group

Hazardous to the aquatic

environment

Maritime transport in bulk according to IMO instruments

Japanese lows and regulations

Special precautions for users

Special Provisions

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

No data available

No data available

No data available

No data available

SECTION 15 Regulatoly information (Japan)

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Cryolite(Na3AlF6)

Occupational Safety and Health Law	No data available
PRTR Law	No data available
Poisonous and Deleterious Substances control Law	No data available
Labor Standards Act	No data available
Chemical substances control Law	No data available
Fire fighting Law	No data available
Air Pollution Control Act	No data available
Water Pollution Prevention Act	No data available
Water Supply Act	No data available
Sewerage Act	No data available
Marine Pollution Prevention Law	No data available
Waste Management and Public Cleansing Act	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.

The SDS prepared by our company includes all findings from our investigation for reference. Not applicable to all items listed.

Literature Reference

[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)