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Product Name: Cryolite

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SECTION 1 Chemicals and company identification

Product name Cryolite
Product code 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
Not applicable
Oxidizing gases
Not applicable
Oxidizing gases
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
Substances and mixtures which,in 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 Category 1

exposure)

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 Cryolite

Chemical formula Cryolite(Na3AlF6)

Concentration or concentration

range

99.9%<

CAS No. 15096-52-3

TSCA Inventry Cryolite (Na3(AIF6))

EINECS number 239-148-8

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.

Special precautions for physicians No data available

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.

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(Na3AIF6)

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)

Melting point/freezing point

Boiling point or initial boiling point

and boiling range

Flammability

Upper/lower flammability or

explosive limits

Flash point

Auto-ignition temperature

Decomposition temperature

рΗ

Kinematic viscosity

Solubility

Water

Other solvents

Partition coefficient: n-

octanol/water

Vapour pressure

Density and/or relative density

(Density)

1000 ℃

No data available

2.95

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Relative vapor density

No data available

Particle characteristics

No data available

Other information

No data available

SECTION 10 Stability and reactivity

Cryolite(Na3AIF6)

Reactivity

No data available

Chemical stability

It is stable in storage conditions and normal handling.

Possibility of hazardous reactions

No data available

Conditions to avoid

High-temperature and humidity

Incompatible materials

No data available

Hazardous decomposition products

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: Gases)

No data available

Acute toxicity (Inhalation:

Vapours)

No data available

Acute toxicity (Inhalation: Dusts

and mists)

No data available

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitization

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

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity(single

exposure)

No data available

Specific target organ toxicity(repeated exposure)

No data available

Aspiration hazard

No data available

Other information

No data available

SECTION 12 Ecological information

Cryolite(Na3AIF6)

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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

Hazardous to the aquatic

Packing group

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(Na3AIF6)

No data available Occupational Safety and Health PRTR Law No data available Poisonous and Deleterious No data available Substances control Law 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 No data available Cleansing Act 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]
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