Substance key: 000000276110	Revision Date: 01/15/2014
Version : 2 - 0 / CDN	Date of printing :01/15/2014

WHMIS controlled: yes
Class: D1A
D1B
D2A
D2B

Section 01 - Product and company identification

Identification of the company:
Clariant (Canada) Inc.
2 Lone Oak Court
Toronto, Ontario, M9C 5R9
Telephone No.: +1 514-832-2559

Information of the substance/preparation:
ESHA
Phone (514) 832 2559, Fax (704) 330 1505
Canada.PS@Clariant.com

Emergency tel. number: +1 CANUTEC (613) 996-6666

Trade name: **Anodal CS-2N**
Material number: 000000000000222632

Chemical family: Mixture of inorganic salts
Primary product use: aluminium chemicals

Section 02 - Hazards identification

Health effects of exposure:

Toxic by ingestion, inhalation and skin contact. Irritant to eyes and respiratory system. Inhalation may cause respiratory sensitization with asthma-like symptoms. Contact may cause skin sensitization. May cause cancer. May affect fetal development. May cause hereditary genetic damage and birth defects.

Nickel fluoride: nickel and many nickel compounds are poisons and car- cinogens. Ingestion can cause intestinal disorders, convulsions and asphyxia. Hypersensitivity to nickel is common and can cause allergic contact dermatitis, pulmonary asthma, conjunctivitis and inflammatory reactions. Divalent nickel salts cause hyperglycemia, immune system efects, kidney damage, liver damage and heart effects in animals exposed to them. Nickel fluoride is toxic by ingestion, inhalation and skin contact. It is an irritant to skin, eyes and the respiratory system. It may cause sensitization by inhalation and skin contact and there is limited evidence that it is a carginogen.

Listed carcinogen:
IARC: Yes
NTP: Yes
OSHA: No
Other: No

Section 03 - Composition/information on ingredients

Hazardous ingredients:

Component	CAS number	Concentration
Nickel fluoride (NiF2)	10028-18-9	60 - 100 %
Ammonium fluoride	12125-01-8	7 - 13 %
Cobalt(II) acetate tetrahydrate	6147-53-1	5 - 10 %

Section 04 - First aid measures

After inhalation:

Get victim to fresh air. Loosen tight clothing such as collar, tie, belt or waistband. If breathing is difficult administer oxygen. If victim is not breathing, give mouth to mouth resuscitation. Get prompt medical attention. Warning: giving mouth to mouth resuscitation when the inhaled material is toxic may be hazardous to the person providing aid.

After contact with skin:

Remove contaminated clothing and wash affected areas with soap and plenty of water for at least 15 minutes. If redness or skin irritation occurs, seek medical attention.

After contact with eyes:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

After ingestion:

If ingested, do not induce vomiting. Get immediate medical assistance.

Advice to doctor / Treatment:

None known.

Section 05 - Fire fighting measures

Flashpoint: not applicable

Extinguishing media: Water spray jet
Foam
Dry powder
Carbon dioxide (CO2)

Special fire fighting procedure:

Do not allow run-off from fire fighting to enter drains or water courses.

Unusual fire and explosion hazards: Emits toxic and corrosive fumes under fire conditions.

Hazardous combustion products:

Carbon oxides
Nickel oxide
Cobalt oxides
fluorides (inorg.)

Impact sensitivity : Not impact sensitive.
Method: Lütolf test method

Minimum ignition energy : > 1 J
not capable of dust explosion
Method: modified Hartmann tube

Section 06 - Accidental release measures

Steps to be taken in case of spill or leak:

Wear prescribed protective equipment. Sweep up or shovel into disposal containers using non-sparking tools. Eliminate ignition sources. Wet down with non-reactive liquid if required to limit dusting. If melted, allow to solidify first. Clean up spill location. Must not be released into sewers, drains or wells.

Section 07 - Handling and storage

Advice on safe handling:

Avoid dust formation.
Handle and open container with care.
When filling, transferring, or emptying of containers, adequate suctioning close to work place necessary.

Further info on storage conditions:

Keep containers tightly closed in a cool, well-ventilated place.

Section 08 - Exposure controls / personal protection

Occupational exposure limits:

Component	CAS number:	Regulatory list	Type of value	Value 1	Value 2
Nickel, Soluble inorganic compounds	10028-18-9	US. Threshold Limit Values (TLV) for Chemical Substances in the Work Environment Adopted Values	8-hour, time-weighted average		0.1 mg/m3
Nickel Elemental (Elemental)	7440-02-0	US. Threshold Limit Values (TLV) for Chemical Substances in the Work Environment Adopted Values	8-hour, time-weighted average		1.5 mg/m3

Respiratory protection: If TLV is exceeded or concentration is unknown, wear an approved combination dust-vapour-mist respirator. Use appropriate filters. Do not exceed filters limitations. TLV = Threshold Limit Value

Hand protection: Butyl Rubber, PVC or Neoprene

Eye protection: safety glasses/face shield

Other protective equipment: Recommended use of tyvek suit with the use of a barrier creme (arrotil) on all exposed areas of skin.

Section 09 - Physical and chemical properties

Form: powder

Color: greenish

Odor:	not specified
pH:	5 - 6 (20 °C, 5 g/l)
Solubility in water:	45 g/l (20 °C) soluble
Melting point :	not applicable
Boiling point :	not applicable
Bulk density:	750 - 800 kg/m3

Section 10 - Stability and reactivity

Thermal decomposition:	> 350 °C Method: isoperibolic decomposition test Heating rate: 0 K/min
Thermal decomposition:	> 550 °C Method: dynamic decomposition test
Chemical stability:	Stable
Hazardous Polymerization:	Hazardous polymerisation does not occur. Conditions to avoid: None known.
Incompatibility with (Conditions to avoid) :	See incompatibility section
Hazardous decomposition products	Hydrogen fluoride

Section 11 - Toxicological information

Acute oral toxicity:	LD50 25 - 200 mg/kg (rat)
Skin irritation:	Irritant (rabbit)
Eye irritation:	Irritant (rabbit eye)
Sensitization:	sensitizing

Other relevant toxicity information:

The classification was made by the conventional (calculation) method of the Dangerous Preparations Directive (1999/45/EC)

Section 12 - Ecological information

Product information:

Biodegradation:	This property is substance-specific and therefore cannot be given for the preparation.
Fish toxicity:	not tested.
Daphnia toxicity:	not tested.
Algae toxicity:	not tested.

Bacteria toxicity: not tested.

Remarks:
The product should not be allowed to enter drains, water courses or the soil.
Avoid release to the environment.

Section 13 - Disposal considerations

Waste disposal information:
Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

Section 14 - Transport information

TDG

Proper shipping name:	Toxic solid, inorganic, n.o.s.
Class:	6.1
Packing group:	II
UN/ID number:	UN 3288
Primary risk:	6.1
Remarks:	Shipment permitted
Hazard inducer(s):	NICKEL FLUORIDE

IATA

Proper shipping name:	Toxic solid, inorganic, n.o.s.
Class:	6.1
Packing group:	II
UN/ID number:	UN 3288
Primary risk:	6.1
Remarks:	Shipment permitted
Hazard inducer(s):	NICKEL FLUORIDE

IMDG

Proper shipping name:	Toxic solid, inorganic, n.o.s.
Class:	6.1
Packing group:	II
UN no.:	UN 3288
Primary risk:	6.1
Hazard inducer(s):	NICKEL FLUORIDE
Marine pollutant:	Marine Pollutant
EmS:	F-A S-A

Section 15 - Regulatory information

Registration status

DSL:	no
NDSL:	yes

CEPA

Listed as priority substance:	yes
Listed as toxic substance:	no

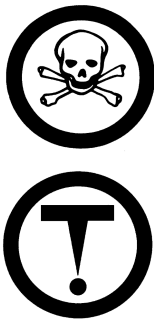
NPRI yes

TSCA Status:
All components of this product are listed on the TSCA Inventory.

FDA:
This product is not registered with the FDA.

Section 16 - Other information

WHMIS



Toxic by inhalation.
Toxic in contact with skin.
Toxic by ingestion
Causes eye, skin, and respiratory tract irritation.
MAY CAUSE DERMAL AND RESPIRATORY SENSITIZATION
Possible cancer hazard
SUSPECT ANIMAL TERATOGEN.

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