

SECTION 1: IDENTIFICATION

1.1 Product identifier:

4961_24_120_plain - sialoX 24-120 plain

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Surface tretament

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Initial supplier identifier:

Abrasifs JJS Inc. 900 Chemin Olivier Saint-Nicolas - Québec - Canada msds.ch@sia-abrasives.com www.sia-abrasives.com

1.4 Emergency phone number: +1 (418) 836-0557

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture:

Due to the inclusion of the active ingredient(s) in a polymeric matrix and thus totally encapsulating them, it is estimated that they should not present a hazard in the form they are delivered in.(this criterion prevails throughout the processing of the SDS) **WHMIS 2015:**

The product is not classified as dangerous according to Part 2 of Hazardous Products Regulations (DORS/2015-17 modifié par DORS/2022-272)

2.2 Label elements:

WHMIS 2015:

None

Acute Toxicity Estimate (ATE mix):

96.37 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity

2.3 Health and physical hazards not otherwise classified (HHNOC - PHNOC):

Not relevant

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: polymer matrix

Components:

In accordance with Schedule I of the Hazardous Products Regulations (SOR/2015-17), the product contains:

	Identification	Chemical name/Classification	
CAS:	AC: 12775 52 C	Trisodium hexafluoroaluminate (cryolite)	1 < 5 0/
	5: 13775-53-6	Acute Tox. 4: H332; STOT RE 1: H372; STOT RE 1: H372 - Danger 🔶 🚯	1 - <5 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

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SECTION 4: FIRST-AID MEASURES (continued)

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

The possibility of being breathed is practically nil, however, in the case of symptoms:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

By eye contact:

This product does not contain substances classified as hazardous for eye contact. Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes.

By ingestion/aspiration:

In case of consumption, seek immediate medical assistance showing the SDS of this product.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:



SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

It is recommended:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

- A.- General precautions for safe use
 - Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).
- B.- Technical recommendations for the prevention of fires and explosions

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

- C.- Technical recommendations on general occupational hygiene
- Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

- A.- Specific storage requirements
 - Maximum Temp.: 0 °C
- B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

ALBERTA - Occupational Health and Safety Code:

Identification	Occupa	itional exposure lin	nits
Trisodium hexafluoroaluminate (cryolite)	8-hour		2 mg/m ³
CAS: 13775-53-6	15-minute		

Due to the inclusion of the active ingredient(s) in a polymeric matrix and thus totally encapsulating them, it is estimated that they should not present a hazard in the form they are delivered in.(this criterion prevails throughout the processing of the SDS) BRITISH COLUMBIA >> Particles (Insoluble or Poorly Soluble) Not Otherwise Classified (PNOC): TWA = 10 mg/m3

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued) PPE Pictogram Remarks Replace gloves in case of any sign of damage. For prolonged periods of exposure Protective gloves against minor risks to the product for professional users/industrials, we recommend using chemical protection gloves Mandatory hand protection As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application. D.- Eye and face protection Pictogram PPE Remarks Clean daily and disinfect periodically according to the manufacturer's instructions. Panoramic glasses against splash/projections. Use if there is a risk of splashing. Mandatory face protection E.- Bodily protection Pictogram PPE Remarks Work clothing Replace before any evidence of deterioration. Anti-slip work shoes Replace before any evidence of deterioration. F.- Additional emergency measures Emergency measure Standards Emergency measure Standards **0**+ ANSI Z358-1 DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 ISO 3864-1:2011, ISO 3864-4:2011 Emergency shower Eyewash stations **Environmental exposure controls:** In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D Volatile organic compounds (VOC) according to Canadian Environmental Protection Act, 1999: 0.09 % weight Volatile organic compounds: V.O.C. density at 20 °C: 1.32 kg/m³ (1.32 g/L) SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES Information on basic physical and chemical properties: 9.1 For complete information see the product datasheet. Appearance: Physical state at 20 °C: Solid Appearance: Not available

Colour:

Odour:

Volatility:

Odour threshold:

Boiling point or initial boiling point and boiling range:

*Not relevant due to the nature of the product, not providing information property of its hazards.

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Several

Odourless

Not relevant *

Not relevant *



SECT	TION 9: PHYSICAL AND CHEMICAL PROPERTIE	S (continued)			
	Vapour pressure at 20 °C:	Not relevant *			
	Vapour pressure at 50 °C:	Not relevant *			
	Evaporation rate at 20 °C:	Not relevant *			
	Product description:				
	Density at 20 °C:	1444.7 kg/m³			
	Relative density at 20 °C:	1.445			
	Dynamic viscosity at 20 °C:	Not relevant *			
	Kinematic viscosity at 20 °C:	Not relevant *			
	Kinematic viscosity at 40 °C:	Not relevant *			
	Concentration:	Not relevant *			
	pH:	Not relevant *			
	Relative vapour density at 20 °C:	Not relevant *			
	Partition coefficient — n-octanol/water (logarithmic value) 20 °C:	Not relevant *			
	Solubility in water at 20 °C:	Not relevant *			
	Solubility properties:	Not relevant *			
	Decomposition temperature:	Not relevant *			
	Melting point/freezing point:	Not relevant *			
	Flammability:				
	Flash Point:	Non-applicable			
	Flammability (solid, gas):	Not relevant *			
	Autoignition temperature:	400 °C			
	Lower flammability limit:	Not relevant *			
	Upper flammability limit:	Not relevant *			
	Explosive (Solid):				
	Lower explosive limit:	Not relevant *			
	Upper explosive limit:	Not relevant *			
	Particle characteristics:				
	Median equivalent diameter:	Not relevant *			
9.2	Other information:				
	Information with regard to physical hazard classes:				
	Explosive properties:	Not relevant *			
	Oxidising properties:	Not relevant *			
	Corrosive to metals:	Not relevant *			
	Heat of combustion:	Not relevant *			
	Aerosols-total percentage (by mass) of flammable components:	Not relevant *			
	Other safety characteristics:				
	Surface tension at 20 °C:	Not relevant *			
	Refraction index:	Not relevant *			
	*Not relevant due to the nature of the product, not providing info	ormation property of its hazards.			

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.



SECTION 10: STABILITY AND REACTIVITY (continued)

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity		
Not applicable	Avoid direct impact	Not applicable	Not applicable	Avoid direct impact		

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Can react violently	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
 - Due to the inclusion of the active ingredient(s) in a polymeric matrix and thus totally encapsulating them, it is estimated that they should not present a hazard in the form they are delivered in.(this criterion prevails throughout the processing of the SDS)
 - Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for skin contact. For more information see section 3.
 - Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 - IARC: Diiron trioxide (3)
 - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:



SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met.
However, it does contain substances classified as hazardous for this effect. For more information see section 3.
Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classifie hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Trisodium hexafluoroaluminate (cryolite)	LD50 oral	>5000 mg/kg	Rat
CAS: 13775-53-6	LD50 dermal		
	LC50 inhalation	1.5 mg/L (ATEi)	

Acute Toxicity Estimate (ATE mix):

	Ingredient(s) of unknown toxicity	
Oral	>5000 mg/kg (Calculation method)	Non-applicable
Dermal	>5000 mg/kg (Calculation method)	Non-applicable
Inhalation	2.3 mg/L (4 h) (Calculation method)	96.37 %

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

Identification		Concentration	Species	Genus
Trisodium hexafluoroaluminate (cryolite)	LC50	99 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 13775-53-6	EC50	156 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	8.8 mg/L (72 h)	Selenastrum capricornutum	Algae

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment: Non-applicable

12.6 Other adverse effects:

Not described



SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

Canadian Environmental Protection Act, 1999

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to Transportation of Dangerous Goods Regulations (SOR/2001-286) including Amendments:

14.1	UN number:	Not relevant
14.2	United Nations proper shipping name:	Not relevant
14.3	Transport hazard class(es):	Not relevant
	Labels:	Not relevant
14.4	Packing group:	Not relevant
14.5	Environmental hazard:	No
		iser needs to be aware of, or needs to comply with, in conveyance either within or outside their premises
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	Not relevant
Transpo	rt of dangerous goods by sea:	
With rega	ard to IMDG 41-22:	
14.1	UN number:	Not relevant
14.2	United Nations proper shipping name:	Not relevant
14.3	Transport hazard class(es):	Not relevant
	Labels:	Not relevant
	Packing group:	Not relevant
	Marine pollutant:	No
14.6		iser needs to be aware of, or needs to comply with, in conveyance either within or outside their premises
	Special regulations:	Not relevant
	EmS Codes:	
	Physico-Chemical properties:	see section 9
	Limited quantities:	Not relevant
	Segregation group:	Not relevant
14.7	Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	Not relevant
Transpo	rt of dangerous goods by air:	
With rega	ard to IATA/ICAO 2024:	



SECTION 14: TRANSPORT INFORMATION (continued)

14.1	UN number:	Not relevant
14.2	United Nations proper shipping name:	Not relevant
14.3	Transport hazard class(es):	Not relevant
	Labels:	Not relevant
14.4	Packing group:	Not relevant
14.5	Environmental hazard:	No
14.6		user needs to be aware of, or needs to comply with, i conveyance either within or outside their premises
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in guestion:

- Domestic Substances List (DSL): Aluminum Oxide (1344-28-1); Calcium Carbonate (471-34-1); Formaldehyde, oligomeric reaction products with phenol (9003-35-4); Trisodium hexafluoroaluminate (cryolite) (13775-53-6); Titanium dioxide (aerodynamic diameter \geq 10 μ m) (13463-67-7); Silica, vitreous (60676-86-0); Diiron trioxide (1309-37-1); Ethanediol (107-21-1); Calcium dihydroxide (1305-62-0); Magnesium oxide (1309-48-4); Paraffin oils (8012-95-1); Alcohols, C12-14, ethoxylated (68439-50-9)

comply with, in

- Non-Domestic Substances List (NDSL): Not relevant

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information provided in this safety data sheet as a foundation for conducting workplace-specific risk assessments. These assessments will help establish the appropriate risk prevention measures for handling, using, storing, and disposing of this product.

Other legislation:

Canadian Environmental Protection Act, 1999

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Part 4 and Schedule I of the Hazardous Products Regulations (SOR/2015-17), amended by SOR/2020-38 and SOR/2022-272.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

WHMTS 2015

Acute Tox, 4: H332 - Harmful if inhaled.

STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (Inhalation).

STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (oral).

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://whmis.org/

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Concentration 50 EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon IARC: International Agency for Research on Cancer

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Safety data sheet According to WHMIS 2015 (amended by SOR/2022-272)

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The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.