

SAFETY DATA SHEET

Section 1. Identification

BioXy Plus

Product identifier : BioXy Plus
Product code : Not available.
Other means of : Not available.
identification

Product type : Solid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Sanitizer powder.

Manufacturer : Bioxy AFD Inc.

3485 Ashby, Ville St-Laurent,

Quebec, Canada

H4R 2K3

Tel: 1-514-830-9447 Fax: 1-514-745-5176 Website: www.bioxyafd.com Email: info@bioxyafd.com

Emergency telephone number (with hours of

operation)

: 514-745-2597

8:00 am - 4:00 pm EST

Section 2. Hazard identification

Classification of the substance or mixture

: ACUTE TOXICITY (oral) - Category 4

SKIN CORROSION/IRRITATION - Category 2 SERIOUS

EYE DAMAGE/ EYE IRRITATION - Category 1

OXIDIZING SOLUTION - Category 2

GHS label elements

Hazard pictograms







Signal word : Danger

Hazard statements : H302 - Harmful if swallowed.

H318 - Causes serious eye damage.

H315 - Causes skin irritation. H272 - May intensify fire; oxidizer

Precautionary statements

Prevention : P280 - Wear protective gloves. Wear eye or face protection.

P273 - Avoid release to the environment.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash hands thoroughly after handling.



Section 2. Hazard identification

Response

: P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if

you feel unwell. Rinse mouth.

P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water.

Take off contaminated clothing and wash it before reuse. P332 + P313 - If skin irritation occurs: Get medical attention.

P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or physician.

Storage : Not applicable.

: P501 - Dispose of contents and container in accordance with all local, regional, **Disposal**

national and international regulations.

Other hazards which do not: None known.

result in classification

Composition/information on ingredients Section 3.

Substance/mixture

: Mixture

Other means of identification

: Not available.

Ingredient name	% (w/w)	CAS number
Sodium percarbonate	30 - 60	15630-89-4
Sodium Carbonate	5 - 10	497-19-8
Edetic Acid	0.1 - 1	60-00-4 8

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.



Section 4. First-aid measures

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact: Causes skin irritation.Ingestion: Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain watering redness

Inhalation : No known significant effects or critical hazards.

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

: Carbon dioxide (CO₂), Dry chemical, Water spray mist or foam.

Unsuitable extinguishing

media

: None known.





Section 5. Fire-fighting measures

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from	the	chemi	са	ı	

Hazardous thermal decomposition products

Special protective actions		
for fire-fighters		
Special protective equipment for fire-fighters		
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: Decomposition products may include the following materials: carbon dioxide carbon monoxide

- : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- : Fire-fighters should wear appropriate protective equipment and self-contained
- : Threathing appearaturit អាច្រុស្ត្រ with every lace-piece operated in positive pressure

mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions: May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not get in eves or on skin or clothing. Do not ingest, Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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Section 7. Handling and storage

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store at temperatures between 20°C and 30°C. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection **Hand protection**

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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BioXy AFD inc. 3485 Ashby, Ville St-Laurent, Quebec, Canada H4R 2K3 Fax: 1-514-745-5176 Website: www.bioxyafd.com Email: info@bioxyafd.com





Section 8. Exposure controls/personal protection

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Solid. Color : White. Odor : Light.

: Not available. **Odor threshold**

pΗ : 9.5 [Conc. (% w/w): 100%]

Melting point : Not available. **Boiling point** : Not available. Flash point : Not applicable. **Evaporation rate** : Not available. Flammability (solid, gas) : Not applicable. Lower and upper explosive: Not applicable.

Vapor pressure

Vapor density

(flammable) limits

: Not available. : Not available.

Relative density : 1

Solubility : Easily soluble in the following materials: cold water and hot water.

Solubility in water : Not available. Partition coefficient: n-: Not available.

octanol/water

Auto-ignition temperature : Not applicable. **Decomposition temperature**: Not available. : Not available. **Viscosity** Flow time (ISO 2431) : Not available.

Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

: The product is stable. **Chemical stability**

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

: No specific data. Conditions to avoid

: Reactive or incompatible with the following materials: oxidizing materials and acids, Incompatible materials

ammonia.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sodium percarbonate	LD50 Oral	Rat	2400 mg/kg	-
Sodium Carbonate	LD50 Oral	Rat	4090 mg/kg	-

Irritation/Corrosion

	<u> </u>	^		Abaamiatian
Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
Eves - Severe irritant	Rabbit	-	50 ma	-
Skin - Mild irritant	Rabbit			-
	Eyes - Severe irritant	Eyes - Moderate irritant Rabbit Eyes - Severe irritant Rabbit	Eyes - Moderate irritant Rabbit - Eyes - Severe irritant Rabbit -	Eyes - Moderate irritant Rabbit - 24 hours 100 mg Eyes - Severe irritant Rabbit - 50 mg

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely

routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effect

s

Eve contact : Causes serious eve damage.

Inhalation: No known significant effects or critical hazards.

Skin contact: Causes skin irritation.Ingestion: Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain watering redness

Inhalation : No known significant effects or critical hazards.

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

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Section 11. Toxicological information

Ingestion : Adverse symptoms may include the following: stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : No known significant effects or critical hazards.

effects

Potential delayed effects: No known significant effects or critical hazards.

Long term exposure

Potential immediate: No known significant effects or critical hazards.

effects

Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

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Numerical measures of toxicity

Acute toxicity estimates

ATE value
1038.7 mg/kg
55000 mg/kg
33000 mg/kg

Section 12. Ecological information

loxicity			
Dura land Parama Parata areas	Descrit	0	
Sodium percarbonate	Acute IC50 68000 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
Sodium Carbonate	Acute EC50 242000 µg/L Fresh water	Algae - Navicula seminulum	96 hours
	Acute LC50 176000 µg/L Fresh water	Crustaceans - Amphipoda	48 hours
	Acute LC50 265000 µg/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 300000 µg/L Fresh water	Fish - Lepomis macrochirus	96 hours
Edetic Acid	Acute EC50 113000 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 129000 µg/L Fresh water	Fish - Ictalurus punctatus - Fingerling	96 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

Due desettin and dient mane	LowD	DOE	Detential
Edetic Acid	- 2	1.8	low

Mobility in soil



Section 12. Ecological information

Soil/water partition coefficient (Koc)

Other adverse effects

	TDG Classification	IMDG	IATA
UN number	3378	3378	3378
UN proper shipping name	Sodium Carbonate Peroxyhydrate	Sodium Carbonate Peroxyhydrate	Sodium Carbonate Peroxyhydrate
Transport hazard class(es)	5.1	5.1	5.1
Packing group	III	III	III
Labels	5.1	5.1	5.1

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

- : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the
- Neguri all and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and

Guidebook (ERG)

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. The temperature during expedition should be between 20°C and 30°C.

runoff and contact with soil, waterways, drains and sewers.

BioXy AFD inc. 3485 Ashby, Ville St-Laurent, Quebec, Canada H4R 2K3 Fax: 1-514-745-5176 Website: www.bioxyafd.com Email: info@bioxyafd.com 9/10

Emergency Response

: Not applicable.



Section 15. Regulatory information

Canadian lists

: Not determined.

Canada inventory (DSL

NDSL) **Canadian NPRI**

: None of the components are listed. : None of the components are listed.

CEPA Toxic substances

Section 16. Other information

Procedure used to derive the classification

ACUTE TOXICITY (oral) - Category 4 Calculation method SKIN CORROSION/IRRITATION - Category 2 SERIOUS Calculation method EYE DAMAGE/ EYE IRRITATION - Category 1 Calculation method Calculation method OXYDIZING SOLUTION - Category 2

History

Date of issue 09/21/2018 Date of previous issue : Not applicable

Version

Prepared by : Bioxy AFD Inc.

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

HPR = Hazardous Products Regulations

Notice to reader

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