

POLYONE CORPORATION**MATERIAL SAFETY DATA SHEET****WILFLEX OASIS NF DISCHARGE ACTIVATOR**Version Number 1.2
Revision Date 12/08/2010Page 1 of 7
Print Date 1/17/2012**1. PRODUCT AND COMPANY IDENTIFICATION****POLYONE CORPORATION**
8155 Cobb Center Drive, Kennesaw, GA 30152Telephone : 1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).Product name : WILFLEX OASIS NF DISCHARGE ACTIVATOR
Product code : FO20013352
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications**2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS**

Components	CAS-No.	Weight percent
Methanesulfinic acid, aminoimino-	1758-73-2	60 - 100

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. In addition, heating or processing this material may result in product degradation or byproduct formation creating additional hazards. See Sections 8 and 11 for additional details. May cause eye, skin, and respiratory tract irritation. Highly susceptible to decomposition generating sulfur dioxide, ammonia, sulfinic acid and carbon dioxide if exposed to humidity and heat above 50°C.

POTENTIAL HEALTH EFFECTS**Routes of Exposure:** : Eyes, Inhalation, Skin contact, Ingestion**Acute exposure**Inhalation : May cause irritation leading to coughing, sneezing, and difficulty in breathing. May cause respiratory sensitization with asthma-like symptoms including coughing, choking sensation, wheeziness, and shortness of breath. May cause irritation or sore throat.
Ingestion : Can result in irritation and corrosive action in the mouth, stomach tissue, and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting, and diarrhea.
Eyes : Particulates, like other inert materials can be mechanically irritating.
Skin : Skin irritant when moisture is present.

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- Chronic exposure** : Refer to Section 11 for Toxicological Information.
- Medical Conditions Aggravated by Exposure:** : Individuals with chronic respiratory disorders (i.e. asthma, chronic bronchitis, etc.) may be adversely affected by any airborne contaminant.

4. FIRST AID MEASURES

- Inhalation** : Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. When symptoms persist or in all cases of doubt seek medical advice.
- Ingestion** : Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
- Eyes** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.
- Skin** : Call a physician if irritation develops or persists.

5. FIRE-FIGHTING MEASURES

- Flash point** : not applicable
- Flammable Limits**
- Upper explosion limit : no data available
 - Lower explosion limit : no data available
- Autoignition temperature** : not applicable
- Suitable extinguishing media** : Water. Foam. Dry powder. Carbon dioxide..
- Special Fire Fighting Procedures** : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. May release high amount of nitrogen if inadvertently heated above 50°C (122°F) or stored incorrectly. Do not allow run-off from fire fighting to enter drains or water courses.
- Unusual Fire/Explosion Hazards** : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), hydrogen cyanide, other hazardous materials, and smoke are all possible. Material may decompose after long exposure to high moisture level. May decompose when heated above 50°C or involved in fire.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Remove all sources of ignition. Avoid dust formation. Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
- Environmental precautions** : Should not be released into the environment. The product should not

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be allowed to enter drains, water courses or the soil. For large spills, dike far ahead of liquid spill for later disposal.

Methods for cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect and seal in properly labeled containers for disposal.

7. HANDLING AND STORAGE

Handling : Wear personal protective equipment. Avoid formation of respirable particles. Do not breathe vapours/dust. Take measures to prevent the build up of electrostatic charge. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. In case of insufficient ventilation, wear suitable respiratory equipment meeting the requirements of AS1716 and AS 1717.

Storage : Store in a cool (below 35°C), dry area out of direct sunlight. Protect from atmospheric moisture. Store away from oxidizing agents. Do not add to hot materials; do not grind or subject to frictional heat as decomposition may occur.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection : Provide general and/or local exhaust ventilation to control airborne contaminant levels below the exposure guidelines. OSHA PEL for Thiourea Dioxide is TWA 10 mg/m³. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Employees using respirators must be properly trained. Employers must follow applicable regulations such as OSHA 29 CFR 1910.134. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks) wear an SCBA. Warning! Air-purifying equipment respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respirator protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Eye/Face Protection : Safety glasses

Hand protection : Protective gloves

Skin and body protection : Long sleeved shirts and long pants are adequate for normal handling. Where operations present a splash or spill potential, employees should wear chemically resistant clothing, boots, apron, gloves, and

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eye/face protection.

- Additional Protective Measures : When using, do not eat, drink or smoke.
- General Hygiene Considerations : Do not breathe dust or spray mist. Handle in accordance with good industrial hygiene and safety practices.
- Engineering measures : Adequate ventilation and/or appropriate respiratory protection may also be necessary to minimize employee exposure to processing vapors.

Exposure limit(s)

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: solid	Evaporation rate	: Not applicable
Appearance	: powder	Specific Gravity	: 1.6
Colour	: NO PIGMENT	Bulk density	: Not established
Odour	: very faint	Vapour pressure	: not applicable
Melting point/range	: not applicable	Vapour density	: not applicable
Boiling Point:	: not applicable	pH	: Not applicable
Water solubility	: negligible		

10. STABILITY AND REACTIVITY

- Stability : Thiourea Dioxide may decompose on lengthy exposure to high temperature and humidity. Avoid heat, humidity and exposure to incompatibles.
- Hazardous Polymerization :
- Conditions to avoid : Heat, flames and sparks.
- Incompatible Materials : Strong oxidizers, Product reacts with water. Take precautions to avoid contact with atmospheric moisture and incompatibilities.
- Hazardous decomposition products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), other hazardous materials, and smoke are all possible. May release high amount of nitrogen if inadvertently heated above 50°C (122°F) or stored incorrectly. Pressure inside the container can increase and cause its rupture. Decomposition products are flammable. May form explosive smoke/air mixtures if inadvertently heated above 50°C (122°F) or stored incorrectly. Thermal oxidative decomposition of Thiourea Dioxide can produce toxic fumes of carbon monoxide, carbon dioxide, hydrogen cyanide, nitrogen oxides and sulfur oxides.

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11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
1758-73-2	Methanesulfinic acid, aminoimino-	Irritant	Eyes, Skin, Respiratory system.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
1758-73-2	Methanesulfinic acid, aminoimino-	Oral LD50	1,120 mg/kg	rat

12. ECOLOGICAL INFORMATION

Persistence and degradability : no data available

Environmental Toxicity : no data available

Bioaccumulation Potential : no data available

Additional advice : no data available

13. DISPOSAL CONSIDERATIONS

Product : The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

Contaminated packaging : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

14. TRANSPORT INFORMATION

U.S. DOT Classification
Proper Shipping Name: Thiourea dioxide
Technical Name:
Hazard Class / Division 4.2
UN Number UN3341
Packing Group III
Label Required 4.2

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ICAO/IATA Refer to specific regulation.

IMO/IMDG (maritime) Refer to specific regulation.

15. REGULATORY INFORMATION

US Regulations:

OSHA Status : Classified as hazardous based on components.

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

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

California Proposition : Not applicable
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SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

not applicable

WHMIS Classification : D2B

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS : Listed

China IECS : Listed

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Europe EINECS : Listed

Japan ENCS : Listed

Korea KECI : Listed

Philippines PICCS : Listed

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.