

Wilflex Oasis™ NF Discharge Activator



Developed and marketed in cooperation with Magna Colours, LTD.

MATERIAL SAFETY DATA SHEET

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DATE: 28.06.05 REVISION: 6

1 IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 Identification of the Product WILFLEX OASIS™ NF DISCHARGE ACTIVATOR

1.2 Company undertaking identification MAGNA COLOURS LIMITED

Dodworth Business Park
Upper Cliffe Road
Dodworth
BARNSELEY S75 3SP
England



1.3 Emergency telephone no(s): +44 (01226) 731751 or +44 (07808) 917935

2 COMPOSITION/INFORMATION ON INGREDIENTS

2.1 Chemical characterization:

2.2 CAS No. Description

1758-73-2 aminoiminomethanesulphinic acid

2.3 Identification number (s)

EINECS Number: 217-157-8

2.4 Chemical characterization

Dangerous components:

CAS: 62-56-6 thiourea xn, N; R 22-40-51/53-63 ≤0.2%

EINECS: 200.543-5

3 HAZARDS IDENTIFICATION

3.1 Most Important Hazards: Harmful if swallowed. Irritating to eyes and skin.
Spontaneously flammable in air.

4 FIRST AID MEASURES

- General - Remove contaminated clothing. Launder before re-use. Symptoms of poisoning may even occur after several hours; Therefore medical observation for at least 48 hours after the accident. By continuous complaints consult a physician.
- 4.1 Inhalation - Move to fresh air, call a doctor should the airway be affected.
- 4.2 Skin Contact - Rinse immediately with soap and plenty of water. Obtain medical attention.
- 4.3 Eye Contact - Rinse thoroughly with water. See doctor.
- 4.4 Ingestion - Call for a doctor immediately. Rinse mouth and drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

5 FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media: Suitable - CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Unsuitable - Water with full jet
- 5.2 Special hazards caused by the substance, its products of combustion or resulting gases:
In case of fire, the following can be released:
Nitrogen oxides (Nox)
Ammonia (NH₃)
Sulphur oxides (Sox)
Carbon Dioxide (CO₂)
Carbon Monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- 5.3 Protective equipment:
Wear fully protective suit, wear self-contaminated respiratory protective device.
- 5.4 Additional information
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions: Avoid formation of dust
Keep people at a distance and stay on the windward side.
Refer to protective measures listed in sections 7 and 8.
- 6.2 Environmental Precautions: Do not allow to enter sewers/surface or ground water.
- 6.3 Cleaning Measures: Dispose contaminated material as waste according to item 13.
Pick up mechanically.

7 HANDLING AND STORAGE

- Handling:
- 7.1 Information for safe handling: Do not seal receptacles gas-tight.
- 7.2 Information about fire - and and explosion protection: No special measures required.
- Storage:
- 7.3 Requirements to be met by storerooms and receptacles: Provide ventilation for receptacles.
Information about storage in one common storage facility:
- 7.4 Store away from Oxidizing agents.
- 7.5 Do not store together with alkalis (caustic solutions).
Further information about storage conditions:
- 7.6 Store in dry conditions.
- 7.7 Protect from contamination.
- 7.8 Keep container tightly sealed.
- 7.9 Recommended storage temperature: 5-30°C
- 7.10 Storage Class:
- 7.11 VCI storage category 4.2
- 7.12 Storage stability, storage period up to 12 months.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Additional information about design of technical facilities. No further data, see item 7
- 8.2 Ingredients with limit values that require monitoring at the workplace: Not required
- 8.3 Additional information: The lists valid during the making were used as basis.
Personal protective equipment:
- 8.4 General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- 8.5 Respiratory protection:
In case of decomposition of the product:
Filter E
- 8.6 Protection of hands:
Protective gloves
The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing test no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- 8.7 Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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- 8.8 Penetration time of glove material.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- 8.9 For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: Chloroprene rubber, CR
- 8.10 As protection from splashes gloves made of the following materials are suitable:
Butyl rubber, BR
Nitrilw rubber, NBR

9 PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance: Light yellow powder
- 9.2 Odour: Odourless
- 9.3 pH: ca. 4
- 9.4 Boiling point/range: - undetermined
- 9.5 Melting point/range: - 124-127 (z) °C
- 9.6 Flash point: - N/A
- 9.7 Flammability: - product is not flammable
- 9.8 Ignition temperature -
- 9.9 Decomposition temperature: - 123°C
- 9.10 Danger of explosion: - Product does not present an explosion hazard
- 9.11 Density at 20°C: - 1.68g/cm³
- 9.12 Bulk density at 20°C: ca 850 kg/m³
- 9.14 Solubility in/miscibility with water at 20°C

10 STABILITY AND REACTIVITY

- 10.1 Materials to be avoided: Water (slow hydrolysis) Reactions with strong oxidising agents.
- 10.2 Dangerous decomposition products; None, if handled according to order.

11 TOXICOLOGICAL INFORMATION

- 11.1 Acute Toxicity:
LD/LC50 values relevant for classification:
- Oral: LD-50 1,120mg/kg (Rat)
NEOC 47 mg (28d) mg/kg (Rat)
- Dermal: LD-50 > 2000mg/kg (Rat)
- Inhalative: LC-50/4 h 0.164 mg/l (Rat)
1758-73-2 aminoiminomethanesulphinic acid
- Oral: LD-50 1,120 mg/kg (Rat)
- Primary Irritant effect:
On the Skin: Irritant to skin and mucous membranes.
On the eye: Irritating effect.
Sensitization: No sensitizing effects known.

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12 ECOLOGICAL INFORMATION

Information about elimination (persistence and degradability):

Method: OECD 302 B

Analysing method DOC decrease

Degree of elimination: >70%

Classification: Readily eliminate from water

Other information: The product is easily biodegradable.

Behaviour in environmental systems:

Mobility and bioaccumulation potential:- Due to the distribution coefficient n-octanol/water an accumulation in organisms expected.

Ecotoxicological effects.

Aquatic toxicity:

EC-50 / IC-50 32 mg/l (algae)

390 mg/l (Daphnia magna)

416 mg/l (Poecilia reticulata)

Behaviour in sewage processing plants:

EC-10 538 mg/l (Pseudomonas putida)

Additional ecological information:

COD-value: 420 mg/g

BOD5-value: 210 mg/g

AOX-indications: Product does not contain any organic bound Halogens which could lead to AOX-values.

According to the formulation contains the following heavy metals and compounds from the EU guideline

No. 76/464 EC:

The product does not contain heavy metals in waste water relevant concentrations.

General notes: Do not allow undiluted or large quantities of it to reach ground water, water course or sewage System.

13 DISPOSAL CONSIDERATIONS

13.1 Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

13.2 Uncleaned packaging:

13.3 Recommendation: Disposal must be made according to official regulations.

13.4 Recommended cleansing agents; Water, if necessary together with cleansing agents.

14 TRANSPORT INFORMATION

LAND TRANSPORT ADR/RID (CROSS-BORDER)

ADR/RID class: 4.2 Substances liable to spontaneous combustion:

Danger code: 40

UN-Number: 3341

Packaging group: II

Hazard label: 4.2

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MARITIME TRANSPORT IMDG:

IMDG Class: 4.2
UN Number: 3341
Label: 4.2
Packaging group: II
EMS Number: F-A,S-J
Marine pollutant: No

AIR TRANSPORT ICAO-TI AND IATA-DGR

ICAO/IATA Class: 4.2
UN/ID Number: 3341
Label: 4.2
Packaging group: II

15 REGULATORY INFORMATION

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives/Ordinance on Hazardous Materials

Warning symbols: Xn

Warning words: HARMFUL

Risk phrases: R22: Harmful if swallowed.
R36/38: Irritating to eyes and skin.

Safety phrases: S3/14: Keep in a cool place away from alkalis.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

60: This material and its container must be disposed of as hazardous waste.

Additional information: The product contains thiourea: content $\leq 0.2\%$

16 OTHER INFORMATION

Intended uses: Textile Printing.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish valid contractual relationship.

Relevant R-phrases

22 Harmful if swallowed.

40 Limited evidence of a carcinogenic effect.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

63 Possible risk of harm to the unborn child.

Abbreviations: N/A = Not applicable N/D = Not determined N/K = Not known

The information contained in this leaflet is given in good faith. This information is accurate to the best of our knowledge and represents the most up to date information available to us. Products should be handled and used in accordance with the advice given.