



Material Safety Data Sheet

1. Identification Of The Substance / Preparation And Company

Product Information : Fluorine-free Water Repellent Agent NF-380LT
Another name : Water Repellent Agent
Recommend usage : -
Information On Producer/ Supplier Name, Addresses , Phone : GRACESS INTERNATIONAL CO., LTD. 29F-3, No. 86, Sec. 1, Beixin Rd., Xindian Dist., New Taipei City 231003, Taiwan
Emergency Phone / Fax : +886-2-2673-3998 /+886-2-2673-3995

2. Hazards Identification data

Hazard classification: -
Label: -
Symbol: -
Caution: -
Hazard alarm: Combustible liquid
Hazard precaution measure : 1. may cause irritation to respiratory system. 2.Avoid contacting eyes and skin. Do not inhale the vapor.
Other hazard: -

3. Identification data

Substance/Mixture : Mixture -

Materials name	CAS Number	%
Acrylic acid resin Copolymer	38810-51-4	19~21%
Water	7732-18-5	79~81%

4. First aid measure

First aid measure: Inhalation: move to fresh air and get medical attention Skin: flush with water. Eyes: Flush eyes with plenty of water for 15 minutes and get medical attention. Ingestion: get medical attention.
The most harmful effect:-
Protection of first-aid person: -
Suggestion to doctors: symptomatic treatment

5. Fire fighting measure

Suitable extinguishing media: Water spray, powder, carbon dioxide, alcohol-resistant foam, Halogen, dry sand, etc. are effective.
Specific extinguishing method: Not required attention for fire since the product does not burn usually. However it burns after moisture evaporation.



Protection for fire fighters : Wear gas mask (for organic gas) and also wear adequate protectors. The extinction work should be done from windward to avoid inhalation of poisonous fumes as much as possible.

6. Accidental release measure:

Personal precaution: Wear appropriate apparatus
 Environmental precautions: forbid into river and drain.
 Cleaning method: Use suitable absorbent to clean the waste.(ex: sand, sawdust) and clean with water.

7. Handling and storage:

Handling: ventilated equipment
 Storage: storage and container requirement : use polyolefins container
 Storage : keep away from oxidant and avoid frost
 storage temperature at 0°C- 35°C
 Storage stability: 6 months
 Keep container closed.

8. Exposure controls/personal protection

Engineering Control : ventilated equipment
 controls parameter:
 PC-TWA/PC-STEL/PC-MAC: -/ -/ -/
 Respiratory System Protection :
 Respirator: wear appropriate respiratory apparatus under unventilated place.
 Hand protection: safety glove
 Eye protection: safety goggle
 Skin and body protection: protective clothing, rubber boots.
 Hygiene Procedure : follow general chemical precaution method.

9. Physical and chemical properties

Appearance	White liquid	Flash point	None (Water boils)
Ph	Acidity (as received)	Solubility	Water: dissolve in at any ratio.
Volatile content	Water		

10. Stability and activity

Stability: Stable during normal handling.

11. Toxicological information

Acute toxicology: LD50>2000MG/KG(rats)
 Eyes: irritant
 Skin: irritant
 Acute Toxicity : -
 Chronic toxicity/ long-term toxicity: -



12. Ecological information:

Toxicity : LC50> 500 mg/l(96h,brachidanio rerio)
Biodegradability:-
Other effect: -

13. Disposal considerations:

Chemicals : Consign disposal to industrial waste disposal services certified by prefectural governors.
Used empty containers and packagings :Consign disposal to industrial waste disposal services certified by prefectural governors.

14. Transport Information

International Regulatory Information: Air transportation is in accordance with the rules of IATA. Marine transportation is in accordance with the rules of IMDG.
UN Class: Not regulated by UN hazardous material standard.
Special precautions and conditions: When transport this product, make sure that there is no leakage, damage, corrosion on container and while loading, don't rolling sideways, fall to the ground, damage on container. The load shifting is surely prevented.

15. Regulation

Suitable regulations:
The product should be classified in accordance with local regulations and GHS system in each country.

16. Other

Lister unit	GRACESS INTERNATIONAL CO., LTD. 29F-3, No. 86, Sec. 1, Beixin Rd., Xindian Dist., New Taipei City 231003, Taiwan
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