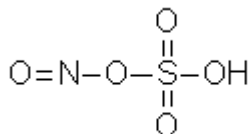


1. General Statement

Nitrosyl Sulfuric Acid Solid is a crystalline, colourless solid..pungent odour.Non-combustible substance, Decomposes in water.Acute or chronic health hazards result from the substance. The substance is hazardous to the aquatic environment.

2. Chemical identity

Name : Nitrosyl Sulfuric Acid Solid
CAS number(s) : 7782-78-7
EC number : 231-964-2
Molecular formula : (NO)HSO₄
Structure :



3. Uses and Benefits

Nitrosyl Sulfuric Acid Solid has an industrial use resulting in manufacture of another substance (use of intermediates). in the synthesis of dyes and pigments, particularly azo dyes.

4. Physical / chemical properties

Property	Value
Physical state :	Solid
Colour :	light yellow
Odour :	Irritating/pungent odour
pH :	No data available in the literature
Melting point	-79 °C
Boiling point :	No data available in the literature
Flash point :	Not applicable
Density :	No data available in the literature
Solubility in Water:	No data available in the literature

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5. Health Effects

Effect Assessment	Result
Acute toxicity (Oral / inhalation / dermal)	Causes severe skin burns and eye damage
Irritation / corrosion Skin / eye/ respiratory tract	Causes serious eye damage,
Respiratory or skin sensitisation	NA
Toxicity after repeated exposure Oral / inhalation / dermal	NA
Genotoxicity / Mutagenicity	NA
Carcinogenicity	NA
Toxicity for reproduction	NA

6. Environmental Effects

Effect Assessment	Result
Aquatic toxicity	No
Fate and behavior	Result
Persistence and degradability	Biodegradability: not applicable.
Bioaccumulative potential	No bioaccumulation data available.

7. Exposure

Human health

The substance causes severe skin burns and eye damage. Workers may be exposed during (un)loading, mixing, sampling, analysis or maintenance operations and particularly in case of batch processes. The exposure must be kept as minimum as possible by the use of appropriate risk management measures as suitable collective and personal protective equipment, good industrial hygiene practices and risk communication through appropriate training of workers. Careless handling or accidental spillage of the chemical could result in exposure to potentially hazardous levels of chemicals. Industrial workers should ensure that they follow the advice found in the extended safety data sheet (SDS).

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Environment

Care should be taken to avoid releases of these products to sewage, drainage systems and water bodies. Spillage shall be quickly collected in the event of an accidental release. More information about release measures and accidental release measures are available in the extended safety data sheet.

8. Risk Management Recommendations

Human health measures

Organizational	A basic standard of occupational hygiene is recommended. Ensure operatives are well informed of the hazards and trained to minimise exposures. Ensure regular inspection and maintenance of equipment and machines. Handle and store according to the indications of the Safety Data Sheet.	
Protection	Eye protection:	Face shield (EN 166). In case of dust production: protective goggles (EN 166)
	Skin and body protection:	Corrosion-proof clothing (EN 14605)
	Respiratory protection:	Dust production: dust mask with filter type P3. Combined gas/dust mask with filter type B/P3. High dust production: self-contained breathing apparatus (EN 136 + EN 137)
Engineering controls	No additional information available	
Environment protective measures		
Products must not be released into water without pre-treatment.		

9. First-aid measures

First-aid measures after inhalation :Remove victims into fresh air. Immediately consult a doctor/medical service.

First-aid measures after skin contact :If possible, wipe up/dry remove chemicals. Then rinse/shower immediately for 30 minutes with (lukewarm) water. Cut clothing; never remove burnt clothing from the wound. Do not give any pain medication. Consult a doctor/medical service.

First-aid measures after eye contact :Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor/medical service.

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First-aid measures after ingestion : Rinse mouth with water. Immediately consult a doctor/medical service. Do not wait for symptoms to occur to consult the Poison Center. Do not apply (chemical) neutralizing agents without medical advice.

10. Fire-fighting measures

Extinguishing media

Suitable extinguishing media :Adapt extinguishing media to the environment for surrounding fires.

Unsuitable extinguishing media :Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.

Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire :On burning: release of toxic and corrosive gases/vapours (nitrous vapours, sulphur oxides)..

Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions :Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

11. Accidental release measures

Protective equipment :Gloves (EN 374). Face shield (EN 166). Corrosion-proof suit (EN 14605). Dust cloud production:self-contained breathing apparatus (EN 136 + EN 137). Contact with moisture/water: self-contained breathing apparatus (EN 136 + EN 137). Contact with moisture/water: gas-tight suit (EN 943).

Environmental precautions:Prevent soil and water pollution. Prevent spreading in sewers.

For containment :Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply.Dam up the solid spill. Knock down/dilute dust clouds with water spray. Hazardous reaction:measure explosive gas-air mixture. If reacting: dilute toxic gas/vapour with water spray. If reacting dilute combustible/toxic gases/vapours. Take account of toxic/corrosive precipitation water.

12. Disposal consideration

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Disposal must be done according to official regulations.

13. Handling and storage

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Precautions for safe handling : Avoid raising dust. Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Keep the container tightly closed. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid contact of substance with water.

Hygiene measures : Observe very strict hygiene - avoid contact.

14. Classification and Labeling

Hazard pictograms (GHS US)

:



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

Precautionary statements (GHS US)

: P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

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

P310 - Immediately call a poison center or doctor.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P363 - Wash contaminated clothing before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

15. Conclusion

Nitrosyl Sulfuric Acid Solid is a substance can react dangerously with:combustible substances organic substances waterRisk of explosion in contact with:dinitrochloroaniline/heat.this substance causes severe skin burns and eye damage.Care should be taken to avoid releases of these products to sewage, drainage systems and water bodies.The exposure must be kept as minimum as possible by the use of appropriate risk management measures as suitable collective and personal protective equipment, good industrial hygiene practices and risk communication through appropriate training of workers.

16. Contact Information within company

Manufacturer

Aarti Industries Limited

Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (West)

400080 Mumbai - India

T +91-22-6797-6666 - F +91-22-2565 3234

info@aarti-industries.com - www.aarti-industries.com

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This GPS safety summary is intended to give general information about the health, safety and environmental and not intended to provide in-depth details. To obtain the most accurate and current information, consult the appropriate Safety Data Sheet (SDS) prior to use of the material named herein.