

NATIONAL SOLDER CO
Material Safety Data Sheet

to comply with 29 CFR 1910.1200,
OSHA's Hazard Communication Standard

Nasco's S102 MSDS

Section 1:

NATIONAL SOLDER CO
13 ARKIN STREET
GERMISTON

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Revised 1/1/2006

Section 2: Hazardous Ingredients/Identity information

Hazardous Component	CAS #	WT %	Symbol	Other limits
+ Zinc Chloride	7646-85-7	2-5	C, N	NE
Phosphoric Acid	7664-38-2	3-5	C	NE

Only those ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200.
An ingredient marked with an asterisk(*) is also listed in 29CFR 1910.1200(D) #4 as a known or suspected cancer hazard.

+ denotes a chemical regulated as toxic by the Environmental Protection Agency (EPA) as outlined in 40CFR Part 372 (section 313)

Section 3: HAZARD IDENTIFICATION

This product is classified as dangerous.

HUMAN HEALTH HAZARDS - ACUTE:

INHALATION:

May cause irritation of mucous membranes.

SKIN CONTACT:

Irritating to skin.

EYE CONTACT:

Irritating to eye.

INGESTION:

May cause mucosal damage.

ENVIRONMENTAL HAZARDS:

Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Section 4: First Aid Measures.

INHALATION:

Remove to fresh air, rest, treat symptomatically. Obtain medical attention.

SKIN CONTACT:

Obtain medical attention immediately. Remove contaminated clothing. Wash off affected area immediately with plenty of water.

EYE CONTACT:

Obtain medical attention immediately. Immediately gently irrigate with clean water for at least 15 minutes. Move eyeball and keep eyelids wide open and apart whilst irrigating.

INGESTION:

Do not induce vomiting without medical advice. If conscious wash out mouth and give 500ml of water to drink. Obtain medical attention.

Section 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD

Oxides of nitrogen, Oxides of Sulphur, Oxides of carbon, Oxides of phosphorus

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit

Section 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Use personal protective equipment recommended in Section 8.

ENVIRONMENTAL Precautions:

Do not allow to enter sewers or water courses. If spillage does enter sewers or water courses, immediately inform the appropriate water authorities.

METHODS OF CLEANING UP:

Small spills: Soak up with inert absorbent material. Clean up promptly by scoop or vacuum.

Large spills: Dam up. Reclaim into recovery or salvage drums. Wash site of spillage thoroughly with water. Please refer to Section 13 for disposal considerations.

Section 7: HANDLING and STORAGE

HANDLING:\Avoid contact with skin and eyes. Do not take internally. Avoid generating aerosols and mists. Use personal protective equipment recommended in section 8.

STORAGE CONDITIONS:

Storage for more than one year is not recommended. Store separately from hypochlorites, chlorites, nitrites, nitrates and sulphates; contact with these chemicals can liberate toxic gases.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

Zinc chloride OES TWA 1mg/m³ (fumes)

Phosphoric acid OES TWA 1mg/m³

ENGINEERING MEASURES Use general ventilation with local exhaust ventilation.

RESPIRATORY PROTECTION: An approved respirator must be worn if the occupational exposure limit is likely to be exceeded, filter type AB.

HAND PROTECTION: Nitrile gloves, Viton gloves. Most glove materials are of low chemical resistance. Replace gloves regularly.

SKIN PROTECTION: Standard protective clothing.

EYE PROTECTION: Chemical splash goggles

HYGIENE RECOMMENDATIONS: Keep an eye wash fountain available. Keep a safety shower available. Wash hands at breaks and at the end of the shift. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid

COLOUR: Colourless

FLASH POINT: N/A

RELATIVE DENSITY: 1.08-1.15

SOLUBILITY IN WATER: Complete

pH 2

Viscosity 3 cps

Freezing Point: -8 deg celcius

Section 10: STABILITY AND REACTIVITY

STABILITY:

Stable under ambient conditions.

CONDITIONS TO AVOID:

MATERIALS TO AVOID:

Strong bases. Contact with hypochlorites, chlorites, nitrites, nitrates or sulphites can liberate toxic gases.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of nitrogen, Oxides of sulphur, Oxides of carbon, Oxides of phosphorus (under fire conditions).

Section 11. TOXICOLOGICAL INFORMATION

Hazard classification is based on 88/379/EEC, 97/548/EEC and available ingredient toxicity data.

Section 12. ECOLOGICAL INFORMATION

PERSISTENCY AND DEGRADATION:

Chemical Oxygen Demand (COD): 890mg/l (1% solution, NEN6633)

Section 13. DISPOSAL CONSIDERATIONS

Via authorised contractor. If this product becomes a waste, the final user must define and assign the appropriate Waste Catalogue code. Ensure compliance with national and local regulations.

Section 14. TRANSPORT INFORMATION

Class: 8 Packing group: III

UN No: 3264

Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC,

N.O.S. Contains: Zinc chloride, Phosphoric acid

ADR/RID, H.l.n.: 80

EmS-Nr.: 8-15

Section 15. REGULATORY INFORMATION

CLASSIFICATION:

HAZARD SYMBOL: IRRITANT



IRRITANT

Contains: Zinc chloride, Phosphoric acid

RISK PHRASES:

R36/38 Irritating to eyes and skin

SAFETY PHRASES:

S24.25 Avoid contact with skin and eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of water.

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

Section 16: Additional Information

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NE- not established NA = not applicable