

Safety Data Sheet

FLUX ZINC

1. Identification of the substance / of the preparation and company

1.1 Identification of the substance or preparation

Denomination FLUX ZINC

1.2 Use of the substance / preparation

Description/Use Mixtures of salts based on ammonium nitrate.

1.3 Identification of the company

Name of the company SOPRIN S.r.l.
Address Via dell'Industria 106
Town and State Maserada Sul Piave (TV) – ITALIA
tel. (+39) 0422 521025 and fax (+39) 0422 521060

e-mail of the person responsible of
the safety data sheet

Alessandro Padovan e-mail soprin@soprin.it

1.4 Phone number for emergency calls

(+39) 0422.521025 during office hours

2. Hazard identification

According to EEC directives 67/548 and 1999/45/CE as amended and corrected, the preparation is not classified as hazardous. Anyhow, as the preparation contains hazardous substances at a concentration that needs to be declared under section n.3, it requests a material safety data sheet in compliance with the EEC Regulations 1907/2006 and following amendments.

3. Composition / Information on ingredients

Contains:

Denomination	Concentration (C)	Classification
AMMONIUMNITRATE	15 <= C < 16,5	O R 8
CAS No 6484-52-2		Xi R 36/37/38
EEC No 229-347-8		

The complete text of the R-phrases is written under section 16 of the sheet.

4. First aid interventions

EYES: Rinse immediately with plenty of water for at least 15 minutes and seek medical advice.

SKIN: Have a wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical advice. Wash contaminated clothing separately before using them again.

INHALATION: Supply fresh air; if breathing is irregular seek immediately medical attention.

INGESTION: Seek immediately medical attention. Do not induce vomiting, neither administer anything not authorized by the physician or if injured is unconscious.

5. Fire-fighting measures

In case of fire, cool down the containers to avoid explosions and development of gas which are hazardous to health and safety. Always wear complete fire-fighting equipment.

Suitable extinguishing media: Nebulized water, dry powder, foam, sand.

6. Accidental release measures

Personal precautions: Use gloves.

Environmental precautions: Avoid the product entering water courses and sewer systems.

Methods of cleaning up: Collect as much as possible of the solid product with mechanical media. Avoid raising dust. Flush away traces with water.

7. Handling and storage

Handling: the operator has to be aware of the risks he is exposed to and has to use the following means of personal protection according to circumstances:

- gloves
- goggles giving protection to eyes

Storage: keep the product only in its original container. Store in ventilated place, far from ignition sources. Adequate earthing system for equipment and persons has to be granted.

8. Exposure control / Personal protection

8.1 Exposure limit values

Not determined

8.2 Exposure controls

In order to restrain exposure, use adequate individual means of protection for this specific processing, as for example: mask suitable to the nature of the product, goggles, gloves and overall.

Do not eat, drink or smoke while using the product; carefully wash hands with water and soap before having a meal and after working shift; it is strongly suggested to have a shower.

9. Physical and chemical properties

Physical state	Solid
Colour	Dark grey
Odour	Imperceptible
Solubility	Partially miscible in water (15g/l)
Viscosity	Not determined
Vapour density	Not determined
Evaporation speed	Not determined
Combustion-related properties	no
Partition coefficient: n-octanol/water:	Not determined
pH	Not determined
Boiling point	Not determined
Flash point	>500°C
Explosive properties	no
Vapour pressure	Not determined
Specific gravity at 20°C	0,63 kg/dm ³
VOC (Directive 1999/13/CE):	0
VOC (carbon volatile):	0

10. Stability and reactivity

The product is stable during normal use and storage conditions. Vapours which are potentially harmful for health can be released by thermal decomposition or in case of fire.

AMMONIUM NITRATE: decomposes above 210°C developing toxic gas of nitrogen oxides. Keep containers tightly closed and far from contact with reducing agents, combustible material and metal dust in order to avoid explosive reactions and fire.

11. Toxicological information

There are no known episodes of health damage caused by exposure to the product. In any case it is suggested to operate according to the rules of good industrial hygiene. In case of specially sensitive person the preparation may provoke slight effects on health due to exposure, inhalation and/or contact to skin or eyes and/or ingestion.

AMMONIUM NITRATE: oral LD50 (mg/kg) 2217 (rat); inhalation LC50 (rat) >88,8 mg/l/4h

12. Ecological information

Use in accordance to good working practice, avoiding leakage of product in the ambient. Advice local authorities if the product has reached water courses or sewer systems or if it has contaminated the soil or vegetation.

13. Disposal considerations

Check the possibility to burn the product inside a suitable incinerator. In case of acid or basic product, its neutralization is always necessary before any further treatment, including the biological treatment, if practicable. In case of solid waste, it is possible to dispose in dump in accordance to local authorities. This rule is also valid for empty containers, after adequate washing. Never dump into sewer systems or water courses.

14. Transport information

The product is not harmful, in accordance to the rules for transport of dangerous goods on land (A.D.R.), on rail (RID), by sea (IMDG Code) and by air (IATA).

15. Regulatory information

Danger symbols: none
Risk phrases (R): none
S-phrases: none

Safety data sheet available on request for professional end-users.

Labelling has been performed in accordance with EU directives 1999/45 and 67/548/EEC as amended and corrected.

16. Other information

Text of R-phrases mentioned under section 3 of the data sheet:

R8 CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.
R37 IRRITANT TO RESPIRATORY SYSTEM.

GENERAL BIBLIOGRAPHY:

1. Directive 1999/45/CE and amendments
2. Directive 67/548/CEE and amendments and adaptations (XXIX technical adaptation)
3. Regulation (CE) 1907/2006 of the European Parliament (REACH)
4. The Merck Index. Ed. 10
5. Handling Chemical Safety
6. Niosh - Registry of Toxic Effects of Chemical Substances
7. INRS - Fiche Toxicologique
8. Patty - Industrial Hygiene and Toxicology
9. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989

Notice to user:

The information above is believed to be accurate and represents the best information currently available to us. Users should make their own investigations to determine the suitability of the information for their particular purposes.

However, we make no warranty with respect to such information and of any specific property of the product, and we assume no liability resulting from its use.

As the use of the product is not under our direct control, it is the duty of the user to observe under its own responsibility all hygiene and safety regulations in force.

Amendments made compared to previous revision

The following sections have been modified:

01