

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
LNT Airside Solid

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : LNT Airside Solid
Chemical Name: Sodium Formate
Chemical Family: Formic acid, Sodium salt
CAS No.: 141-53-7
EC No.: 205-488-0
REACH No.: 01-01-2119486468-21-0007
Use : Ground Deicing Solid

Supplier : LNT Solutions Ltd
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2. HAZARDS IDENTIFICATION

Classification of substance

Not a hazardous substance or preparation according to EC-directive 1272/2008.

S Phrases S22 Do not breathe dust
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
S37/39 Wear suitable gloves and eye/face protection

Precautions P261 Avoid breathing dust/fumes/gas/mist/vapours/spray
P262 Do not get in eyes, on skin, or on clothing
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other hazards

The product is not subject to classification

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Sodium Formate: >97%
CAS No.: 141-53-7
EC No.: 205-488-0
REACH No.: 01-01-2119486468-21-0007

Corrosion Inhibitor: <3%

4. FIRST AID MEASURES

General

Immediately move the patient from the source of exposure. General first aid. Move to fresh air, keep the patient warm and at rest. If unconscious: Loosen tight clothing, place in stable position on one side. Give artificial respiration if breathing has stopped. Contact a doctor.

SAFETY DATA SHEET

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LNT Airside Solid

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a doctor.

Skin Contact

Flush skin with water after contact. Wash contaminated clothing before reuse.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a doctor.

Ingestion

No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Consult a doctor if necessary.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards from substance:

The product is not flammable. When heated to 250°C the product will decompose to hydrogen and sodium oxalate. Formation of hydrogen may cause danger of explosion.

Advice for fire fighters:

Wear full protective clothing including self contained breathing apparatus for firefighting if necessary.

Other information:

Containers exposed to flames can be cooled with water

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Environmental precautions

Although the product is not classified as an environmental hazard, inform appropriate authorities if large volumes are emitted.

Methods and materials for containment and cleaning up

Sweep up and store in labelled containers for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Reference to other sections

See also section 8

7. HANDLING AND STORAGE

Precautions for safe handling

Keep away from heat. Keep away from sources of ignition. Ensure good ventilation. Avoid skin and eye contact. Avoid formation of dust.

Condition for safe storage

Keep container dry. Keep in a cool place. Ground all equipment containing material. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Specific end use(s)

Not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
LNT Airside Solid

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Control

Use adequate ventilation to keep airborne concentrations low.

Occupational Exposure Controls

Ensure good ventilation. Wash facilities near working area. Wash hands after working with product.

Respiratory protection Respiratory protection is not required. Where protections from nuisance level of dust are desired, use an approved/certified respirator or equivalent.

Hand protection Handle with gloves of impervious material. E.g. rubber

Eye protection Wear eye protection if there is a possibility of eye contact

Skin and body protection Wear protective gloves and clothing to prevent repeated or prolonged skin contact. Launder clothing before reuse.

Hygiene measures General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Granules of irregular shape
Odour	Odourless to slight formic acid odour.
Colour	White
Melting Point,	258°C
Boiling Point,	Decomposes before boiling at 411°C
Bulk density	900-950 kg/m ³
pH	9 - 12
Solubility in water	81g pr. 100ml at 20°C

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal storage and handling conditions
Stability: Hygroscopic. Absorbs moisture from the air.

Hazardous reactions : Under normal conditions, no hazardous reactions will occur.
Conditions to avoid : Heat, flames and sparks. Moisture.
Materials to avoid: Strong oxidising agents – strong acids
Hazardous decomposition products : When heated to 250°C the product will decompose to hydrogen and sodium oxalate, then into sodium carbonate. Carbon dioxide and carbon monoxide may form when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral, mouse: LD50 = 11200 mg/kg, Method: OECD Guideline 401
Inhalation, rat: LC50 (4 h) => 0.67 mg/L air,
Dermal, rat: LD50: > 2000 mg/kg bw, Method: OECD Guideline 401

Skin contact Redness. Pain, burns.
Eye contact Redness, pain. Tearing and impaired vision
Ingestion Nausea. Abdominal cramps, vomiting.
Carcinogenicity Oral, rat: NOAEL= 2000 mg/kg bw/day, Method: OECD Guideline 453
Teratogenicity 1000 mg/kg bw/day
Reproduction Oral, rat: 1000 mg/kg bw/day (rat), Method: OECD Guideline 416
Mutagenicity Ames test: Negative, Method: OECD Guideline 471

SAFETY DATA SHEET

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12. ECOLOGICAL INFORMATION

Toxicity

Acute aquatic, fish : >1000mg/l, Onchorhynchus mykiss, OECD guideline 203
Acute aquatic, algae: 1600 mg/l, Skeletonema costatum, ISO 10253
Acute aquatic, Daphnia >1070 mg/l, daphnia magna, OECD 202

Biodegradability

Readily biodegradable, no ecological hazards. 86% degraded within 28 days Method: OECD 306

Chemical Oxygen demand

0.24 g O₂/g

Comment

Readily biodegradable, no ability to bioaccumulation. Dissolves readily in water. Not considered as PBT / vPvB.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Product not classified as hazardous. Packaging not classified as hazardous. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. Local disposal regulations may differ from national disposal regulations. Dispose of container and unused contents in accordance with national and local requirements.

14. TRANSPORT INFORMATION

ADR: Not dangerous goods
RID: Not dangerous goods
IMDG: Not dangerous goods

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006, and Annex II guide to the compilation of safety data sheets. CLP-Regulation (EC) No 1272/2008.

16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text This safety datasheet only contains information relating to safety and does not replace any product information or product specification.