

EG-Material Safety Data Sheet
According to EC Directive 91/155/EEC and 2001/58/EG
of the Commission of the European Community
Date printed: : 23.03.2018

Page 2 of 8

Version : 002

Product Name: SOLVONA®

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4. First Aid Measures

General advices:

Dirty clothes must be removed immediately

Inhalation:

If fumes from sodium burns are inhaled, remove victim to fresh air immediately. If breathing is difficult give oxygen. Call a physician.

Skin contact:

Remove metal dry and flush the skin with plenty of water for at least 15 minutes

Eye Contact:

In case of contact, remove sodium, then immediately flush eyes with plenty of water for at least 15 minutes. Call a physician

Ingestion:

If swallowed, do not induce vomiting (risk of perforation). Give large quantities of water (at least one liter). Call a physician immediately.

Available aid at the activity area:

Eye wash bottle
Emergency shower

5. Fire Fighting Measures

Extinguishing Media:

Dry soda ash, Extinguishing powder class D, dry salt, dry concrete

Non applicable extinguishing media:

Water, CO₂, extinguishing agents class A, B, C, E and foam

Stay upwind and use self-contained breathing apparatus if needed.

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Page 3 of 8

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=====

6. Accidental Release Measures

personal: Persons handling sodium should be thoroughly familiar with its hazards and proper first aid procedures. Avoid substance contact

Environmental Protection:

Do not allow to enter sewerage system; risk of explosion

Procedures for cleaning:

Pick up dry, cover rest with dry sand or other convenient inert material and transfer to a metal can for correct disposal

In no case use water

7. Handling and Storage

Handling: Keep workplace dry. Keep substance away from any moisture

Storage:

Store in separate area without any sprinklers, steam, water lines or potential for flooding as heavy reaction with water creating explosive gases.

Keep drums tightly closed. Do not store together with combustibles or flammables.

Store in Nitrogen- or Argon-atmosphere. Working area shall be dry and preferably well vented.

Advise for clustering:

Do not store together with high flammable liquids

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8. Exposure Controls & Personal Protection

Engineering controls:

Good ventilation should be provided to keep fume concentrations below the exposure limits and prevent the accumulation of hydrogen gas.

Personal Protective Equipment:

Wear dry nitrile rubber gloves and chemical splash goggles and a **full** length face shield.

Protective Clothing:

When larger amounts of sodium are handled specific protective clothing is necessary.

The resistance of the protective clothing to solutions of sodium hydroxide should be ascertained with the potential supplier.

9. Physical and chemical Properties

Form:	solid
Colour:	black
Odour:	odourless
Melting point:	98° C (Sodium)
Sodium content:	20 weight%
Boiling point:	881° C (Sodium)
Ignition temperature:	n.a.
Bulk Density:	0.6 g/ml at 20° C

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Page 5 of 8

Version : 002

Product Name: SOLVONA®

=====

10. Stability and reactivity

Conditions to be avoided: High humidity, high temperature

Compounds to be avoided: water, oxidising agent, air, alcohol, acids

Hazardous decomposition products:

reacts violently with water to emit flammable gases and caustic solution of sodium hydroxide. Mixture of air and hydrogen may explode.

Reacts violently with halogens, halogenated hydrocarbons and oxidising agents as well as other inorganic and organic substances.

11. Toxicology

Acute toxicology:

No relevant values known

Additional advice:

Overexposure by skin or eye contact include skin burns or ulceration; eye corrosion with corneal or conjunctive ulceration. By inhalation of fumes the effects include irritation of the upper respiratory passages with coughing and discomfort. By ingestion, the effects include abdominal discomfort characterised by nausea, severe pain, diarrhea and collapse.

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Page 6 of 8

Version : 002

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12. Ecological aspects

General Information: Sodium reacts with humidity to form sodium hydroxide in aqueous solution. The alkaline characteristics of this solution has to be regarded.

13. Disposal Considerations

Product:

Call the supplier for technical advice in the individual case. Pick up the material and transfer in dry drum, close tightly and store in UN-x-coded transport drum. Sodium disposal must not be attempted by inexperienced people. Transport to incineration plant according to ADR-regulation No. 4.3; I

Empty drums and Packaging:

clean with isopropanol carefully and rinse with water before disposal. Do not drain into municipal water system.

Local conditions and regulations have to be applied.

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14. Transport Information

14.1 Rail and Road ADR/RID/GGVSE:



ADR/RID-GGVS/E class: 4.3 (W2) Material that emits flammable gases on contact with water.

Kemler-Number: X423
UN-NO: 1428
Packaging Group: I
Identification: 1428 Sodium



14.2 Sea IMDG/GGVSea:

IMDG/GGVSea-class: 4.3
UN-NO: 1428
Lable 4.3
Packaging Group: I
Identification: 1428 SODIUM



14.3 Air ICAO-TI und IATA-DGR:

ICAO/IATA-class: 4.3
UN/ID-NO: 1428
Packaging Group: 4.3
Identification: 1428 SODIUM

UN“Model Regulation“: UN1428, Natrium, 4.3,I

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15. Regulatory Information

15.1 Marking

15.1.1 Code letter and

Hazard Declaration: F; highly flammable C; corrosive

15.1.2 R-Phrases

R14/15: reacts violently with water to emit flammable gases

R34: Causes burns

15.1.3 S-Phrases

S05: Keep contents under inert gas

S08: Keep container dry

S43: in case of fire use dry sand or rock salt

- **Never use water**

S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

16. Other information

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

This information is taken from sources based upon data believed to be reliable.

However Dr. Bilger Umweltconsulting GmbH makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.

Local laws and regulations have to be considered by the customer upon own responsibility.