

SAFETY DATA SHEET

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

Identification of the substance or preparation:

Name: JOKISCH NBK-S.

Product code: MJ23.

Company/undertaking identification:

Registered company name: Intercon Enterprises Inc..

Address: 11-7550 River Road Delta.V4G 1C8.Delta.British Columbia.

Telephone: 604 946-6066 . Fax:604 946-5340. Telex:.

www.intercononline.com

Manufacturer: Jokisch GmbH, Industriestr. 5, D-33818 Oerlinghausen; Phone: ++49 (0)5202 9734-0; Fax: -49

Emergency telephone: .

Association/Organisation: .

Use of the substance/preparation:

Soluble metalworking fluid for machining operations

2 - COMPOSITION/INFORMATION ON INGREDIENTS

Other substances with occupational exposure limits:

CAS 102-71-6 TRIETHANOLAMINE

3 - HAZARDS IDENTIFICATION

This product is not classed as flammable. Refer to the recommendations regarding the other products present on the site

This preparation is not classed as hazardous to health by directive 1999/45/EC.

Other data:

High risk of slipping due to leakage/spillage of product.

4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

In the event of exposure by inhalation:

In case of big quantities inhaled, move affected person to fresh air, keep warm and allow to rest.

In the event of splashes or contact with eyes:

Rinse eyes thoroughly with clean and fresh water.

Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water.

In the event of swallowing:

In case of swallowing, keep the patient at rest and contact a doctor.

Information for the doctor:

Treat symptomatically

5 - FIRE-FIGHTING MEASURES

No special measures required.

Co-ordinate fire-fighting measures to the fire surroundings.

Suitable extinguishing media:

Not applicable/Not relevant.

Extinguishing media which must not be used for safety reasons:

Not applicable/Not relevant

Special protective equipment for fire-fighters:

No special measures required.

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Not applicable/not relevant

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

Consult the safety measures listed under headings 7 and 8.

Environmental precautions:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

Methods for cleaning up:

Absorb or contain spillages with sand, earth or spill control materials.

Pick up the liquid with pumps or shovels.

Clean contaminated floors and objects thoroughly observing environmental regulations.

Clean preferably with a detergent, do not use solvents.

7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

Conditions according to local authorities.

Handling:

Handle in well-ventilated areas.

Avoid direct contact with the product.

Fire prevention:

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

When not in use, keep the containers tightly closed and in vertical position.

Prohibited equipment and procedures:

Smoking, eating and drinking are prohibited in areas where the preparation is used.

Storage:

Keep away from food and drink.

Do not store together with strong oxidizing agents.

Keep packaging closed and away from frost.

Storage temperature: 5-40 °C

Storage time: 1 year

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

Technical measures:

Personnel shall wear regularly laundered overalls.

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.

Exposure limit values per INRS ED 984:

The names of the components identified in this chapter by CAS are mentioned in chapter 2.

| France | VME-ppm: | VME-mg/m3: | VLE-ppm: | VLE-mg/m3: | Notes: | TMP N°: |
|----------|----------|------------|----------|------------|--------|---------|
| 102-71-6 | - | - | - | - | - | - |

Exposure limit values (2003-2006):

| Denmark(3.4/3.4.1) | TWA: | STEL: | Anm: | TWA: | STEL: | Anm: |
|--------------------|---------|-----------|----------|-------------|------------|------|
| 102-71-6 | 0.5 ppm | 3.1 mg/m3 | | 0.5 ppm | | |
| Ireland | TWA: | STEL: | Ceiling: | Definition: | Criterion: | |
| 102-71-6 | 5 mg/m3 | - | - | - | - | |
| Czech Rep. | TWA: | STEL: | Ceiling: | Definition: | Criterion: | |
| 102-71-6 | 5 mg/m3 | 10 mg/m3 | - | - | - | |
| Sverige | TWA: | STEL: | Ceiling: | Definition: | Criterion: | |
| 102-71-6 | 5 mg/m3 | 10 mg/m3 | - | - | - | |
| España | TWA: | STEL: | Ceiling: | Definition: | Criterion: | |
| 102-71-6 | 5 mg/m3 | - | - | - | - | |
| Norsk | TWA: | STEL: | Ceiling: | Definition: | Criterion: | |
| 102-71-6 | 5 mg/m3 | - | - | - | - | |
| Belgique | TWA: | STEL: | Ceiling: | Definition: | Criterion: | |
| 102-71-6 | 5 mg/m3 | - | - | - | - | |
| Nederland | TWA: | STEL: | Ceiling: | Definition: | Criterion: | |
| 102-71-6 | 5 mg/m3 | - | - | - | - | |
| ACGIH/TLV | TWA: | STEL: | Ceiling: | Definition: | Criterion: | |
| 102-71-6 | 5 mg/m3 | - | - | - | - | |

Respiratory protection:

In case of forming of mist or if ventilation is not sufficient it's recommended to wear breathing apparatus (type FFA1P1 according to standard CE EN 405).

Hand protection:

Wear protective gloves if advisable under safety aspects.

Gloves of appropriate material (i.e. nitrilic rubber, specification: penetration time: level 6, >480 min., thickness 0,9-1 mm; CE-certified acc. EN 374 cat III)

Use appropriate protection cream, especially if for safety reasons protective gloves are not advisable.

Eye and face protection:

Use glasses or face shield if there is a risk of splashing.

Skin protection:

Standard issue working clothes. Safety shoes or boots - chemical resistant.

Avoid long and intensive skin contact. Before working use protection cream.

Remove contaminated clothing. Wash affected skin with soap and water.

Don't keep lubricant contaminated rags in pockets of working clothes.

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

Physical state: fluid liquid

Important health, safety and environmental information:

pH of the substance or preparation: slightly basic.

When a pH measure is possible, it has a value of: not stated.

Boiling point/boiling range: not specified.

Flash point interval: not relevant.

vapour pressure: not relevant.

Density: > 1

water solubility: Dilutable.

pH (aqueous solution): 8,9 [5% 20°C]

Density: 1,08 g/ml [20 °C; ASTM D 1298]

| | |
|---|---|
| Viscosity: | 12 mm ² /s [20 °C; ASTM D 445] |
| Other information: | |
| melting point/melting range: | not specified. |
| Self-ignition temperature: | not specified. |
| Decomposition point/decomposition range : | not specified. |

10 - STABILITY AND REACTIVITY

The preparation is stable at the handling and storage conditions recommended per § 7 of the safety data sheet,

Conditions to avoid:

Heat

Materials to avoid:

Strong oxidising agents.

Strong reducing agents

Strong acids.

Hazardous decomposition products:

No dangerous decomposition products occur under normal storage and use conditions.

11 - TOXICOLOGICAL INFORMATION

The preparation contains no substance classed as hazardous per directive 67/548/EEC.

In the event of exposure by inhalation:

The product is not irritating to the respiratory system.

Toxic effects are not expected: LC50 >5 mg/l/4h (rat)

Sensitization by inhalation is not expected.

In the event of swallowing:

Toxic effects are not expected: LC50 > 2000 mg/kg (rat)

In the event of splashes or contact with skin:

Toxic effects are not expected: LC50 > 2000 mg/kg (rat)

Contact with skin may cause skin irritation and dermatosis, if corrected procedures for personal hygiene might not be taken under consideration.

Sensitization by skin contact is not expected.

In the event of splashes or contact with eyes:

Splashes in eyes may cause slight irritation and have reversible effects on powers of vision.

Other data:

The product is not expected to be carcinogenic, mutagenic, teratogenic, or toxic for reproduction.

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

Mobility:

In nature the product is liquid in most of conditions.

SOIL: in consideration of its physico-chemical characteristics, the product is expected to be relatively mobil in soil.

Water: soluble.

Persistence and degradability:

Not readily biodegradable.

Bioaccumulative potential:

Potentially non bioaccumulable.

Ecotoxicity:

Toxic effects on aquatic organisms are not expected: LC50/EC50/IC50 >100 mg/l.

Other adverse effects:

Informations on adsorbable halogenic compounds (AOX):

The product does not contain substances which may increase the AOX value.

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Recommended cleaning agent: water.

Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :

12 01 08 * machining emulsions and solutions containing halogens

Allocation of the waste code numbers must be realized under considerations of existing sector specifics and processes. The above allocation is a recommendation for the disposal of the product after recommended use.

14 - TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2005 - IMDG 2004 - ICAO/IATA 2005).

15 - REGULATORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations

In addition directive 2004/73/EC with the 29° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

This preparation is not classed as hazardous to health by directive 1999/45/EC.

This product is not classed as flammable.

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

The product should be used for industrial processing or applications only.

Taric code: 3403 9990

Full text of risk phrases appearing in section 2: