



# Safety Data Sheet

(according to 1907/2006/EC)

## JKL 80

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Date of Issue: 30.07.09  
Change state 30.07.09  
Art. -No.: 1702096

### 1 Identification of substance

**Trade name:** JKL 80  
**Application of the substance:** This product is a biocide according to directive 98/8/EC.  
**Item-number:** 8839165

**Manufacturer:**  
JUDO Wasseraufbereitung GmbH  
Hohreuschstr. 39 – 41, D-71364 Winnenden  
Phone: 0049(0)7195/692-0  
**Technical Information:** Industrial Division  
E-Mail: [peter.mueller@judo-eu](mailto:peter.mueller@judo-eu)

**Emergency Information:** Service phone: Munich 0049(0)89/19240

### 2 Composition/information on ingredients

**Chemical nature:** Polyacrylic acid, modified

CAS-Nr.	Active ingredient	Concentration	R-phrases
10222-01-2	2,2-Di-Bromo-3-Nitrilo-Propionamide	20 %	23/25-38-41-43-50

### 3 Possible Hazards



warning

**Hazard Description:** (Xn), harmful  
**Information pertaining to particular dangers to man and environment:**  
R 20/22 Harmful if inhaled or swallowed  
R 38 Irritating to skin  
R 41 Risk of serious eye damages  
R 43 May cause sensitization by skin contact

### 4 First Aid Measures

**General advice:** Personal protection for the first aider  
**After inhalation:** Supply fresh air or oxygen; call doctor  
**After skin contact:** Remove contaminated clothing immediately, destroy or thoroughly clean contaminated shoes. Clean with soap immediately. In case of extensive skin contact, immediately use safety shower.  
**After eye contact:** Rinse open eye for at least 15 minutes under running water and apply sterile protective bandage. Get medical attention.  
**After swallowing:** Rinse out mouth and then drink large quantities of water. Do not induce vomiting. Call for medical help. Information for doctor: Probable mucosal damage may contraindicate the use of gastric lavage. Following symptoms may occur: Corrosive damage to gastro-intestinal tract. Danger: Danger of gastric perforation. Treatment: If swallowed, gastric irrigation with activated carbon. Rinse eyes thoroughly with physiological saline.

### 5 Fire Fighting Measures

**Extinguishing agents:** Water spray, dry extinguishing media, foam, carbondioxide  
**Harmful gases generated by fire:** Bromine, hydrobromic acid.  
**Personal protective equipment:** Wear self-contained breathing apparatus and full protective gear. Contaminated extinguishing water must be disposed of in accordance with local regulations.



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### 6 Accidental Release Measures

**Personal protection:** Appropriate protective equipment must be worn when handling a spill of this material (see section 8: Exposure controls/personal protection, for recommendations). If exposed to material during clean-up operations, see section 4, first aid measures, for actions to follow.

**Procedures:** Keep spectators away. Transfer to separate suitable containers for recovery or disposal. Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

### 7 Handling and Storage

#### Handling

**Information for safe handling:** Ensure good exhaust ventilation at the workplace. It is preferable to handle the product in a closed system. Compliance with the minimum requirements designed to guarantee a better standard of safety and health at work is essential to ensure the safety and health of workers.

#### Storage

**Requirements to be met by storerooms and containers:** Store only in the original container Store away from foodstuff. Maximum storage temperature 30 °C. Incompatible materials: acids

### 8 Exposure Control/Personal Protection

**Additional information about design of technical systems:** No further data; see item 7 components with critical values that require monitoring at the workplace: none established.

**Personal protective equipment:** Wash hands during work breaks and at the end of the shift. Avoid contact with eyes and skin. Do not inhale dust.

**Respiratory Protection:** Mask with filter P2

**Protection of hands:** Chemical protective gloves according to DIN EN 374 with CE-labelling. Material of gloves: Nitrile rubber, NBR

**Penetration time of gloves:** Thickness 0.35 mm, break-through time: 240 minutes

**Eye protection:** Use chemical splash goggles (ANSI Z87.1 or approved equivalent).

**Body protection:** Protective clothing. Apron. Full head, face and neck protection

### 9 Physical and Chemical Properties

#### General informations:

State:	liquid
Colour:	pale yellow
Smell:	specific
Solidification point:	n. d.
Boiling point:	100 °C
Vapor pressure (20 °C):	23 hPa
Solubility in water (20 °C):	soluble
pH-value (20 °C):	2,0 – 5,0

### 10 Stability and Reactivity

**Conditions to be avoided:** No decomposition if used and stored according to specifications. Protect against temperatures > 35 °C.

**Minimum shelf life:** 6 months from production date, if stored at a temperature of about 20 °C

**Materials to be avoided:** Oxidizing agents, reducing agents, alkali and nucleophilic compounds



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**Dangerous reactions:** Corrodes aluminium

**Dangerous products of decomposition:** Traces of cyanogens bromide, dibromoacetonitrile

### 11 Toxicological Information

#### Acute toxicity

#### LD 50 values that are relevant for classification:

Oral: LD50 510 mg/kg (rat)

Dermal: LD50 > 2000 mg/kg (rat)

#### Primary irritant effect:

on the skin: irritating to skin and mucous membranes

on the eye: strong irritant effect with danger of severe eye injury

**Sensitization:** sensitization effect by skin contact is possible.

**Subacute to chronic toxicity:** non mutagenic (OECD 471), non teratogenic (OECD 414)

### 12 Ecological Information

#### Information about elimination (persistence and degradability)

**The components are readily biodegradable:** 78% (OECD 301 B, modified Sturm Test)

**Behaviour in environmental systems, mobility and bioaccumulation potential:** Low potential to bioaccumulate (log Pow 0,79; DBNPA); Bio concentration factor (BCF): 13

#### Aquatic Toxicity

EC50/48h: 3,3 mg/l (Daphnia)

IC50/72h: 1,5 mg/l (Selenestratum capricornutum)

LC50/96h : 3,5 mg/l (rainbow trout)

**Behaviour in sewage processing plants:** EC50: 15 mg/l (Activated sludge)

**COD-value:** 990 mg O<sub>2</sub>/g product

**AOX-indication:** AOX (DIN 38409 H 14): 0,8%

Product does not contain heavy metals according to EC directive 2006/11/EC.

### 13 Disposal Considerations

**Recommendation:** Product must be disposed of according to local regulations pertaining the disposal of hazardous waste.

#### European waste catalogue:

16 00 00, wastes not otherwise specified in the list

16 03 00, off-specification batches and unused products

16 03 05, organic wastes containing dangerous substances

**Contaminated packaging:** Remove all product from packaging and clean thoroughly before recycling.

### 14 Transport Information

Overland transport ADR/RID (cross border/domestic):



Proper shipping name: 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(2,2-Di-Bromo-3-Nitrilo-Propionamid)

ADR/RID class: 8

UN/NA: UN 3265

Packing group III

Maritime transport IMDG:



Proper shipping name: 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(2,2-Di-Bromo-3-Nitrilo-Propionamid)  
IMDG class: 8  
UN/NA: UN 3265  
Packing group III  
EMS number: F-A, S-B  
Marine pollutant: no

Air transport ICAO-TI and IATA-DGR:



Proper shipping name: 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(2,2-Di-Bromo-3-Nitrilo-Propionamid)  
ICAO/IATA class: 8  
UN/NA: UN 3265  
Packing group III

## 15 Regulatory Information

**Labelling according to EC guidelines:** The product has been classified and labeled in accordance with EC directives.

**Code letter and hazard designation of product:** Xn Harmful

### Risk-phrases

20/22 Harmful if inhaled or swallowed  
R 38 Irritating to skin  
R 41 Risk of serious eye damages  
R 43 May cause sensitization by skin contact

### Safety-phrases

24 Avoid contact with skin.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
60 This material and its container must be disposed of as hazardous waste.

Indication of VOC according to Directive 1999/13 EG regarding the limitation of emissions of volatile organic compounds (VOC-Directive): product does not contain any volatile organic solvents, which may contribute to VOC-value.

**National legislation/regulations:** Water hazard class: 2 (VwVwS, Germany, Annex 4 of 17.05.1999)

**Biocidal Reporting Requirements Relating:** announced biocidal/product, (according to the reporting regulations for biocides; registration number **N-34874** (Registrationdate 19/08/2008)

## 16 Other Information:

This data is based on our present knowledge. However, it does not constitute a guarantee for any specific product feature and does not establish a legally valid contractual relationship.

### Department issuing SDS:

Occupational health and safety division: Mr. P. Müller.