

## SAFETY DATA SHEET

Safety Data Sheet in compliance with Regulation (EC) n. 1907/2006

### Section 1 - Chemical product and company identification

#### 1.1. Product information

Supplier Code BMW50  
Product name BM SERIES WORKING SOLUTION

#### 1.2. Recommended uses and restrictions on uses of the substance/mixture

Description/Uses *Lubricant cooling fluid for cut, with electro-erosion wire*

#### 1.3. Details of the supplier of the safety data sheet

GENESI S.r.l.

Address:

Via Garibaldi, n. 273 - 20832 Desio (Monza Brianza) - Italy

tel. +39.0362.621.857

Supplier e-mail: [angelo.bocchini@genesigroup.com](mailto:angelo.bocchini@genesigroup.com); [genesi@genesigroup.com](mailto:genesi@genesigroup.com)

#### 1.4. Emergency telephone number

Emergency telephone: +39 02-66 10 10 29 CENTRO ANTIVELENI OSPEDALE CA' GRANDA – NIGUARDA – MILANO (24 h)

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) n. 1272/2008:

- H318 - Eye Dam. 1
- H412 – Aquatic Chronic 3

#### 2.2. Label elements

Labelling according to Regulation (EC) n. 1272/2008:



**Hazard statements**

H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P264	Wash hands thoroughly after handling
P273	Avoid release to the environment.
P280	Wear eye protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.





**2.3. Other hazards**

This mixture does not contain any Persistent, bioaccumulative or toxic substances with concentration limits > 0,1%. The mixture does not contain any very persistent and very bioaccumulative substances (vPvB) with concentration limits > 0,1%.

**Section 3 - Composition/information on ingredients**
**3.1. Substances**

Not applicable

**3.2. Mixtures**

MIXTURES IDENTIFICATION	LABELLING	H statements	%
2,2',2''-nitrilotriethanol CAS: 102-71-6 EC Number: 203-049-8	--	--	5 – 30%
Alcohols, C12-14, ethoxylated CAS: 68439-50-9		Eye Dam. 1 H318 Aquatic Acute H400 Aquatic Chr. 3 H412	8 – 20 %
Edetate disodium dehydrate CAS: 6381-92-6 EC Number: 205-358-3		Acute Tox. 4 H332, STOT RE 2 H373	1 – 2 %
Sodium carbonate CAS: 497-19-8 EC Number: 207-838-8 Index Number: 011-005-00-2		Eye Irrit. 2 H319	0,2 – 8 %
$\alpha$ -Methyl- $\omega$ -methoxypolydimethylsiloxane CAS: 63148-62-9		Aquatic Chronic 2 H411	0,1 – 1%

## Section 4 - First aid measures

### 4.1. Description of first aid measures

Dust inhalation	Not applicable
Gases/vapors inhalation	Take affected person away from the polluted area. Entrust medical attention.
Skin contact	Flush skin with water.
Eye contact	Flush eyes carefully, with plenty of water, keeping eyelid wide open, for many minutes. If worn, and only if easy to do, take care to remove contact lenses and keep on washing. In case of persistent disorders, entrust an oculist.
Swallowing	Give water and do not induce vomiting. If the patient is not conscious, or has convulsions, do not give liquid. Consult a physician.

### 4.2. Most important symptoms / effects, both acute and delayed

Dust inhalation	Not applicable
Gases/vapors inhalation	No effect recorded. In special cases, it may cause irritation to the respiratory tract.
Skin contact	No effect recorded. Prolonged contact may cause slight skin irritation.
Eye contact	Direct contact with the substance causes irritation and redness. The contact with gases / vapors, emitted from thermal processes, could cause the same effect.
Swallowing	It may cause abdominal pain.

### 4.3. Indication of any immediate medical attention and special treatment

No further indication.

## Section 5 - Firefighting measures

### 5.1. Suitable extinguishing agents

The product is not flammable. If necessary, use water, water spray, foam, dry chemical, carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

No further prescription.

### 5.3. Advice for firefighters

Use suitable Personal Protective Equipment (breathing apparatus, safety hat, safety spectacles, fireproof suit, gloves and boots).

### Additional prescription

Act in accordance with the Internal Emergency Plan, and as the Information Sheets report about the intervention in case of accidents and other emergencies. Remove all ignition sources. In case of fire, cool down the containers and storage tanks of any products that could catch fire or explode. Avoid the spill in water of the products used for fire extinction.

## Section 6 - Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

If safe, try to stop leak. Avoid walking on the liquid to prevent from slipping. Wear suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) in order to prevent any contamination of skin, eyes and personal clothing. These prescriptions are valid both for workers and for emergency actions.

### 6.2. Environmental precautions

Prevent the product goes into wastewater, ground water or sewer. In case of infiltration into water bodies, consult the competent authorities.

### 6.3. Methods and material for containment and cleaning up

In order to absorb the liquid, operate with sand / dry ground, ground limestone.

Use suction equipment and collect in suitable containers.

If possible, reuse the product. If reusing is not possible, dispose in accordance with local regulations.

### 6.4. Reference to other sections

See Section 8 for information about Personal Protective Equipment

See Section 13 for information about disposal

## Section 7 - Handling and storage

### 7.1. Precautions for safe handling

Keep the product away from your face, in order to avoid contact with eyes. Avoid contact with skin for a prolonged time. Avoid accumulation on the floor, in order to prevent people from slipping. Wash hands right after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Better storing away from direct sun, in airy, cool and dry places. Avoid heat, radiation, static electricity and contact with food. Preferably, do not store in places with temperature higher than 40°C, for a long time. Store with care, to avoid risks due to instability or breaking of the packaged products. Keep absorbent material at disposal nearby the product.

### 7.3. Specific end use

No additional prescription.

## Section 8 - Exposure controls/personal protection

### 8.1. Control parameters

There are no working exposure limits for any components of the mixture.

### 8.2. Exposure controls

#### EYE AND FACE PROTECTION

Safety Spectacles (EN 166) with side protection. Especially for prolonged contacts as in production.

#### PROTECTION OF HANDS

Wear protective gloves (EN 374) made with the following materials: natural rubber (NR), PVC, nitrile rubber (NBR).

Pictogram:



#### SKIN PROTECTION

No further prescription.

#### RESPIRATORY PROTECTION

Personal Protective Equipment are not required, under normal working conditions. Do not smell the product. In case of exceeding the threshold value (eg. TLV-TWA) of the substance, or of one or more of the substances into the product, wear a mask with Type A filter. Its class (1, 2 or 3) must be compliant with the limit concentration of use. (Ref. Standard EN 14387). If gas or of a different nature vapors and / or gases or vapors with particles (aerosols, fumes, mists, etc.), provide combined type filters.

**Environmental exposure controls**

Observe the operating instructions and the delivered dosage; do not disperse into drains or the environment; manage waste and empty containers according to local regulations (see Section 13).

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Form (physical state at 23°C):	Liquid
Density:	1,02 ± 0,05 g/cm <sup>3</sup>
Odour:	Peculiar
Melting-point temperature:	Not applicable
Solubility in water:	Fully soluble
pH:	9.0 ± 1
Melting-point /range:	No data available
Boiling point /range:	100 °C
Flash point:	No data available
Flammability temperature:	No data available
Self- Flammability:	No data available
Explosion Limit, lower:	No data available
Explosion Limit, higher:	No data available
Absolute maximum explosion pressure:	No data available
Vapor pressure:	No data available

**9.2. Other information**

No additional information.

**Section 10: Stability and reactivity**

Under normal conditions of use, handling and storage, the mixture remains stable (see Section 7). For this reason, under application, according to correct methods of use, it does not result any dangers of instability.

**10.1. Reactivity**

Stable under normal conditions.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None.

**10.4. Conditions to avoid**

None in particular.

**10.5. Incompatible materials**

None in particular.

**10.6. Hazardous decomposition products:**

None in particular.

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

No specific tests are available about the mixture. This mixture contains substances that have toxic effects (set out below), but they are in such a concentration not to fall into the classification of toxic substances.

Alcohols, C12-14, ethoxylated (CAS: 68439-50-9)

*DL50 Oral - Rat - > 2.000 mg/kg*

*ATE Inhalation - > 20.0000 mg/l*

*ATE Inhalation (vapor) - > 5.0000 mg/l*

*DL50 Dermal - Rat - > 2,000 mg/kg*

Edetate disodium dehydrate (CAS: 6381-92-6)

*DL50 Oral - Rat - > 2.000 mg/kg*

Sodium carbonate (CAS: 497-19-8)

*DL50 Oral - Rat - 4.090 mg/kg*

*CL50 Inhalation - Rat - 2 h - 5.750 mg/l*

2,2',2''-nitrilotriethanol (CAS: 102-71-6)

*DL50 Dermal - Rabbit - > 22,5 g/kg*

Information about presumable ways of exposure

No further prescription.

Symptoms related to the physical, chemical and toxicological

No further prescription.

Immediate, delayed and chronic effects resulting from short and long-term exposures

No further prescription.

Interactive effects

No further prescription.

Lack of specific data

No further prescription.

Other information

No further prescription.

## Section 12 - Ecological information

### 12.1. Toxicity

The preparation is classified as harmful for aquatic organisms, with long-lasting effects, due to the presence of the following substances:

#### Alcohols, C12-14, ethoxylated (CAS: 68439-50-9)

*Toxicity to fish*

*CL50 - Brachydanio rerio - > 1 - 10 mg/l*

*Toxicity to daphnia and other aquatic invertebrates*

*CE50 - Daphnia (water flea) - > 0.1 - 1 mg/l*

*Toxicity to algae*

*CE50 - Algae - > 0.1 - 1 mg/l*

#### Edetate disodium dehydrate (CAS: 6381-92-6)

*Toxicity to fish*

*CL50 - Leuciscus idus (golden orf) - > 500 mg/l - 96 h*

*Toxicity to daphnia and other aquatic invertebrates*

*CE50 - Daphnia (water flea) - > 100 mg/l - 24 h*

*Toxicity to algae*

*CE50 - Algae - 10 - 100 mg/l - 72 h*

#### Sodium carbonate (CAS: 497-19-8)

*Toxicity to fish*

*CL50 - Lepomis macrochirus - 300 mg/l - 96 h*

*Toxicity to daphnia and other aquatic invertebrates*

*CE50 - Daphnia magna (big water flea) - 265 mg/l - 48 h*

#### 2,2',2''-nitrilotriethanol (CAS: 102-71-6)

*Toxicity to daphnia and other aquatic invertebrates*

*CE50 - Daphnia (water flea) - 609,98 mg/l - 48 h*

### 12.2. Persistence and degradability

No further information.

### 12.3. Bioaccumulative potential

No further information.

### 12.4. Mobility in soil

No further information.

### 12.5. Results of PBT and vPvB assessment

No PBT ingredient is in the mixture, in a concentration >0,1% w/w



## **12.6. Other adverse effects**

No further information.

## **Section 13. Disposal considerations**

### **13.1. Waste treatment methods**

The same safety principles recommended for the preparation itself (see Sections 7 and 8) must apply to the handling of the residues. Waste must be disposed as required by national or local regulations.

## **Section 14: Transport information**

### **14.1. UN number**

Not applicable

### **14.2. UN proper shipping name**

Not applicable

### **14.3. Transport hazard class(es)**

Not applicable

### **14.4. Packing group**

Not applicable

### **14.5. Environmental hazards**

Not applicable

### **14.6. Special precautions for user**

Not applicable

### **14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not expected.

## **Section 15: Regulatory information**

### **15.1. Specific safety, health and environmental regulations and legislation for the substance or preparation**

List of standards and regulations taken into account:

Legislative Decree 9/4/2008 n. 81

Ministry of Labour Decree 26/02/2004 (occupational exposure limits)

Ministry Decree 03/04/2007 (Implementation of Directive no. 2006/8 / EC)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EU) No. 453/2010 (Annex I)

**SAFETY DATA SHEET**

Rev. 1 Date 05.10.2017

*Product name: BM SERIES WORKING SOLUTION*

Where applicable, refer to the following regulations:

Legislative Decree 21 September 2005, n. 238 (Seveso Directive Ter)

EC Regulation No. 648/2004 (detergents)

L. 3/4/2006, n. 152 Environmental Regulations

**15.2. Chemical Safety Assessment**

Not expected.

**Section 16: Other information**

This document has been drafted by a skilled person in the field of Safety Data Sheet, who has been properly trained.

Main bibliographic sources:

ECHA - European Chemicals Agency

NIOSH - Registry of toxic effects of chemical substances (1983)

I.N.R.S. - Fiche Toxicologique

National Institute of Health - National Chemicals Inventory

The information here contained are based on our knowledge, as of the date indicated.

It refers solely to the product indicated and it does not give any guarantee of particular quality.

The user must verify the suitability and completeness of such information in relation to the specific use intended.

This Safety Data Sheet supersedes any previous edition.

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