



# SAFETY DATA SHEET

## SOFT BOMAR

Revision n. 1

Dated 12/10/2009

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### 1) MATERIAL/PREPARATION AND COMPANY

- 1.1 **Product name** : SOFT BOMAR
- 1.2 **Use of the substance** : Pickling agent for welding. Use this product together with the electro-chemical systems CLINOX.  
Only for professional users.
- 1.3 **Company identification** : Nitty Gritty S.r.l.  
Via dei Marmorari, 36 - 41057 Spilamberto (MO) – ITALY  
Telephone +39 (0)59 785210 - Fax +39 (0)59 7861612
- 1.4 **E-mail address SDS responsible** : info@nitty-gritty.it
- 1.5 **Emergency telephone** : Nitty Gritty S.r.l. Telephone +39 (0)59 785210
- 1.6 **Poison centers** : Italy → Niguarda Hospital (Milan) - ☎ +39 02 66101029  
England → Guy's & Thomas' Hospital (London) - ☎ +44 20 7771 5310  
France → F. Widal Hospital (Paris) - ☎ +33 1 40 05 48 48  
Germany → Giftnotruf - Institut für Toxikologie (Berlin) - ☎ +49 30 19240  
Spain → Instituto Nacional de Toxicologia (Madrid) - ☎ +34 91 562 04 20  
Belgium → Antigifcentrum (Bruxelles) - ☎ +32 70 245 245  
Netherlands → National Poison Control Centre (Bilthoven) - ☎ +31 30 274 88 88

### 2) HAZARDS IDENTIFICATION

- 2.1 **Substances/preparation classification:** This product is dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments. Therefore, this product requires a safety data sheet according to the Regulation (EC) 1907/2006 and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.  
**Danger Symbol:** Xi  
**Phrases R:** 36/38
- 2.2 **Danger identification:** Irritating to eyes and skin.

### 3) COMPOSITION / INFORMATION ON INGREDIENTS

Name	Concentration (C)	Classification	
PHOSPHORIC ACID	19,5 <= C < 21	C	R34
Cas Nr. 7664-38-2			Note B
CE Nr. 231-633-2			
Index Nr. 015-011-00-6			

The complete text of -R- phrases is specified in section 16.

### 4) FIRST AID MEASURES

- 4.1 **Eyes:** Irrigate copiously with clean, fresh water for at least 15 minutes.
- 4.2 **Skin:** Immediately wash with plenty of water. Remove all contaminated clothing. Obtain immediate medical attention. Wash contaminated clothing separately before using them again.
- 4.3 **Ingestion:** Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Give nothing by mouth to an unconscious person.
- 4.4 **Inhalation:** Remove to open air. If breathing is irregular or stopped, administer artificial respiration. Obtain immediate medical attention.

### 5) FIRE-FIGHTING MEASURES

- 5.1 **General information:** Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
- 5.2 **Suitable extinguishing media:** The extinction equipment should be of the conventional kind: carbon dioxide, foam, powder and nebulised water.
- 5.3 **Extinguishing media which shall not be used for safety reasons:** None in particular.
- 5.4 **Hazards caused by exposure in the event of fire:** Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc)
- 5.5 **Special protective equipment for fire-fighters:** Hardhat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of foam.



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### 6) ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions:** Wear appropriate protective equipment. Send away individuals who are not suitably equipped. Use breathing equipment if fumes or powders are released into the air. Block the leakage if there is no hazard. Do not handle damaged containers or the leaked product before donning appropriate protective gear. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, refer to the other sections of this sheet.
- 6.2 Environmental precautions:** The product must not penetrate the sewers, surface water, ground water and neighbouring areas. Dilute the product well with water after collection.
- 6.3 Methods for cleaning up:** suck the liquid into a suitable container (made of material not incompatible with the product) and soak up any leaked product with absorbent inert material (sand, vermiculite, diatomaceous earth, Kieselguhr, tripoli powder, universal cement, etc). Neutralise remaining material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 7) HANDLING AND STORAGE

Make sure that equipment is available for cooling the vessels, to prevent the danger of overpressure and overheating in the event of fire in the vicinity. Refer to the other sections of this data sheet for information relating to health and environmental risks.

### 8) EXPOSURE CONTROL/INDIVIDUAL PROTECTION

#### 8.1 Limit of individual exposition:

Name	Type	Country	TWA / 8h		STEL / 15min	
			mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
PHOSPHORIC ACID	TLV-ACGIH		1		3	
	OEL	EU	1			
	OEL	IRL	1		2	

**8.2 Exposure controls:** Protože odpovídající technické vybavení musí mít vždy přednost před osobními ochrannými prostředky, ujistěte se, že pracoviště je účinně větráno. Pokud není možné udržet koncentraci výrobku pod přípustné expozice na pracovišti, vhodná ochrana dýchacích cest musí být použita. Viz označení nebezpečnosti výrobku na etiketě. Zeptejte se svého dodavatele chemické látky, o radu při výběru osobních ochranných prostředků. Osobní ochranné prostředky musí být v souladu s platnými předpisy jak uvedeno níže.

**8.2.1 Ochrana dýchacích cest:** Jsou-li na pracovišti nejvyšší prahy koncentrace překročeny, nasadte obličejovou masku pokrývající nos a ústa (viz norma EN 141). V případě vysoké koncentrace na pracovišti nebo v případě nouze, kdy úroveň expozice je neznámá, noste otevřený okruh stlačeného vzduchu samostatně -respirátor (viz norma EN 137), nebo externí přívod vzduchu dýchací přístroj s maskou, maska a dýchací trubice (viz norma EN 138).

**8.2.2 Ochrana rukou:** Chráňte ruce pomocí pracovních rukavic z laminátové LCT fólie. Doporučujeme použití ochranného krému. Následující je třeba zvážit při volbě materiálu pracovních rukavic: degradace, čas opotřebení. Odolnost pracovních rukavic vůči přípravky by měla být kontrolována před použitím, protože může být nepředvídatelná. Životnost rukavic závisí na délce expozice.

**8.2.3 Ochrana očí:** Používejte uzavřené ochranné brýle s postranními kryty (viz norma EN 166).

**8.2.4 Ochrana kůže:** Noste pracovní kombinézy s dlouhými rukávy a profesionální bezpečnostní obuv (viz norma EN 344). Omyjte mýdlem a vodou po odstranění kontaminace. Omyjte oděv před opětovným použitím.

### 9) PHYSICAL AND CHEMICAL FEATURES

- **Color:** green
- **Odor:** odourless
- **Physical State:** liquid
- **Vapor density:** N.A.
- **Evaporation speed:** N.A.
- **Comburent properties:** N.A.
- **Partition coefficient: n-octanol/water** N.A.
- **pH:** 1 (1 g/l H<sub>2</sub>O, 20°C)
- **Boiling point:** > 100°C
- **Flash point:** > 60°C
- **Explosive properties:** Not explosive
- **Vapor pressure:** Not available
- **Specific gravity:** 1,20 kg/l
- **Solubility:** Soluble (20°C)

### 10) STABILITY AND REACTIVITY



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The product is stable in normal conditions of use and storage. Due to thermal decomposition or in the event of a fire vapours may be produced potentially dangerous to health. Phosphoric acid decomposes when heated forming toxic fumes of phosphorus oxide; it reacts with several metals with the formation of hydrogen which is explosive. Above 200 °C it also attacks glass.

#### 11) TOXICOLOGICAL INFORMATION

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly irritate the upper respiratory tract. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

**PHOSPHORIC ACID:** oral LD50 (mg/kg) 1530 (RAT)  
dermal LD50 (mg/kg) 2740 (RABBIT)  
inhalation LC50 (rat) > 0,85 mg/l/1h

#### 12) ECOLOGICAL INFORMATION

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

#### 13) DISPOSAL CONSIDERATION

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Waste transportation may be subject to ADR restrictions. Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

#### 14) TRANSPORT INFORMATION

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations.

These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

##### Road and rail transport:

ADR/RID: 8  
UN: 1805  
Packing Group: III  
Label: 8  
Nr. Kemler: 80  
Proper Shipping Name: Phosphoric acid, liquid solution

##### Carriage by sea (shipping):

IMO class: 8  
UN: 1805  
Packing Group: III  
Label: 8  
EMS: F-A, S-B

Proper Shipping Name:

##### Transport by air:

IATA: 8  
UN: 1805  
Packing Group: III  
Label: 8  
Cargo:  
Packaging instructions: 821  
Maximum quantity: 60 L  
Pass.:  
Packaging instructions: 819  
Maximum quantity: 5 L



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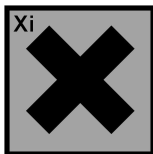
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#### 15) REGULATORY INFORMATION

Commercial name: Soft Bomar  
Symbol: "Xi" = irritant



Risk phrases (R): R36/38 irritating to eyes and skin.  
Risk sentences (S): S25 avoid contact with eyes.  
S26 in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37 wear suitable gloves.

Contains: PHOSPHORIC ACID

Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments.  
Workers exposed to this chemical agent must undergo health checks according to regulation 98/24/EC.

#### 16) OTHER INFORMATION

Text of -R- phrases quoted in section 3 of the sheet:

R34 causes burns.

##### GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments;
2. Directive 67/548/EEC and following amendments and adjustments (technical adjustment XXIX);
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament;
4. The Merck Index. - 10th Edition;
5. Handling Chemical Safety;
6. Niosh - Registry of Toxic Effects of Chemical Substances;
7. INRS - Fiche Toxicologique (toxicological sheet);
8. Patty - Industrial Hygiene and Toxicology;
9. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

##### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.