



This safety data sheet is prepared in accordance with EU directive 91/155/EC amended by Directive 2001/58/EC



SAFETY DATA SHEET

Top protector

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Product name : Top protector
Product use : Protection against (edible) oils, vegetable and animal fats and many other kinds of dirt.

Company/undertaking identification

Manufacturer : HG International b.v. **Telephone No.:** : +31 (0)36 54 94 700
Address : Damsluisweg 70 **Fax** : +31 (0)36 54 94 744
1332 EJ Almere **Internet:** : www.hginternational.com
Country : Netherlands
Importer : HG UK
Address : Unit 11 Grange Way Business Park Whitehall Road Industrial Estate
Uk Colchester Essex CO2 8HF
Telephone No.: : +44.1206.795.200
Fax : +44.1206.795.201
Country : United Kingdom (UK)

2. Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	EC Number	%	Classification
United Kingdom (UK) N-Methyl-2-pyrrolidone	872-50-4	212-828-1	1 - 5	Xi; R36/38

See section 16 for the full text of the R Phrases declared above

* Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

See section 11 for more detailed information on health effects and symptoms.

4. First aid measures

First aid measures

- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.
- Eye contact** : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.

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Notes to physician : Not available.
Specific treatments : Not available.
 See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media : Use an extinguishing agent suitable for surrounding fires.
Special exposure hazards : No specific hazard.
 Not available.
Special protective equipment for fire-fighters : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal Precautions : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Methods for cleaning up : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling : Wash thoroughly after handling.
Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area.
Packaging materials
Recommended : Use original container.
Specific uses : Not available.

8. Exposure controls/personal protection

Exposure limit values :

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<u>United Kingdom (UK)</u> N-Methyl-2-pyrrolidone	EH40-WEL (United Kingdom (UK), 1/2005). Skin STEL: 309 mg/m ³ 15 minute(s). Form: All forms STEL: 75 ppm 15 minute(s). Form: All forms TWA: 103 mg/m ³ 8 hour(s). Form: All forms TWA: 25 ppm 8 hour(s). Form: All forms

Exposure controls
Occupational exposure controls : No special ventilation requirements.
Respiratory protection : A respirator is not needed under normal and intended conditions of product use.

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- Hand protection** : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
>8 hour(s) (breakthrough time): Butyl rubber gloves.
- Eye protection** : splash goggles
- Skin protection** : Work uniform or laboratory coat.

9. Physical and chemical properties

General information

Appearance

- Physical state** : Liquid.
- Colour** : Hazy liquid. Yellow. (Light.)
- Odour** : Characteristic.

Important health, safety and environmental information

- pH** : 4.2 (Conc. (% w/w): 100) [Acidic.]
- Melting point** : May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -0.56°C (31°F)
- Boiling point** : The lowest known value is 100°C (212°F) (Water). Weighted average: 102.46°C (216.4°F)
- Flash point** : Not applicable.
- Explosive properties** : Not available.
- Oxidising properties** : Not applicable
- Relative density** : 1.013 g/cm³ (20°C / 68°F)
- Solubility** : Soluble in cold water, hot water, methanol, diethyl ether, acetone.
- Evaporation rate (butyl acetate = 1)** : 0.03 (N-Methyl-2-pyrrolidone) compared to Butyl acetate.

Other information

10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to Avoid** : Stable under recommended storage and handling conditions (see section 7).
- Materials to avoid** : Reactive with alkalis.

11. Toxicological information

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.
- Skin Contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
N-Methyl-2-pyrrolidone	LD50	3914 mg/kg	Oral	Rat
	LD50	5130 mg/kg	Oral	Mouse

- Carcinogenicity** : No known significant effects or critical hazards.

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- Mutagenicity** : No known significant effects or critical hazards.
Reproductive toxicity : No known significant effects or critical hazards.
Over-exposure signs/symptoms
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Other adverse effects : Not available.

12. Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
N-Methyl-2-pyrrolidone	LEUCISCUS IDUS (LC50)	96 hour(s)	4000 mg/l
	Daphnia (LC50)	24 hour(s)	>1000 mg/l
	Algae (LC50)	72 hour(s)	>500 mg/l

No known significant effects or critical hazards.

Other adverse effects

13. Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
- Waste classification** : Not applicable.
- Hazardous waste** : To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	Not regulated.	-	-	-		Remarks Keep in frostfree area
ADN Class	Not regulated.	-	-	-		Remarks Keep in frostfree area
IMDG Class	Not regulated.	-	-	-		Remarks Keep in frostfree area
IATA-DGR Class	Not regulated.	-	-	-		Remarks Keep in frostfree area

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15. Regulatory information

EU Regulations

- Risk Phrases** : This product is not classified according to the EU regulations.
- Safety Phrases** : S2- Keep out of the reach of children.
S46- If swallowed, seek medical advice immediately and show this container or label.
- Other EU regulations** : Not applicable.
- Product use** : Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.
- Consumer applications.
- Additional warning phrases** : Safety data sheet available for professional user on request.
- EC Statistical classification (Tariff Code)** : 32089091
- Ingredients identification information** : Not applicable.

16. Other information

Full text of R phrases referred to in sections 2 and 3 - United Kingdom (UK) : R36/38- Irritating to eyes and skin.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK) : Xi - Irritant

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Verified by T. Rutgers.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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