



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



SAFETY DATA SHEET

Scale away foamspray

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

Identification of the substance or preparation

Product name : **Scale away foamspray**
 Product use : Removes scale fast.

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 : Netherlands
 Emergency telephone number ***

draft only ***

2. Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	EC Number	%	Classification
Europe				
phosphoric acid	7664-38-2	2316332	5-15	C; R34
propan-2-ol	67-63-0	200-661-7	1-5	F; R11 Xi; R36 R67
alcohols, c11-14-iso-, c13-rich, ethoxylated	78330-21-9		1-5	Xn; R22 Xi; R41
gluconic acid, d-	526-95-4	208-401-4	1-5	Xi; R36

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 classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R36/38

Human health hazards : Irritating to eyes and skin.

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

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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. If large quantities of this material are swallowed, call a physician immediately.
- Skin Contact** : In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention immediately.
- Eye contact** : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately.

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

5. Fire-fighting measures

- Extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical, or CQ
- Special exposure hazards** : No specific hazard.
Not available.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CQ), phosphates.
- Special protective equipment for fire-fighters** : Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

- Personal Precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
- Environmental precautions and clean-up methods** : Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.
- 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** : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended** : Use original container.

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8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<u>United Kingdom (UK)</u> phosphoric acid	EH40-OES (United Kingdom (UK), 2002). Notes: STEL: 2 mg/m ³ 15 minute(s). TWA: 1 mg/m ³ 8 hour(s).
propan-2-ol	EH40-OES (United Kingdom (UK), 2002). Notes: STEL: 1250 mg/m ³ 15 minute(s). STEL: 500 ppm 15 minute(s). TWA: 999 mg/m ³ 8 hour(s). TWA: 400 ppm 8 hour(s).

Exposure controls

- Occupational exposure controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.
- Hand protection** : Use latex gloves. Double latex gloves should be considered.
- Eye protection** : Safety glasses. Goggles, face shield, or other full-face protection if potential exists for direct exposure to aerosols or splashes.
- Skin protection** : Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Appropriate techniques should be used to remove potentially contaminated clothing.

9. Physical and chemical properties

General information

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- Appearance**
- Physical state** : Liquid.
- Colour** : Clear Blue/green
- Odour** : Perfumed

Important health, safety and environmental information

- pH** : 0.9 [Acidic.]
- Melting point** : May start to solidify at <5°C (41°F) based on data for: alcohols, c11-14-iso-, c13-rich, ethoxylated. Weighted average: -3.09°C (26.4°F)
- Boiling point** : The lowest known value is 82°C (179.6°F) (propan-2-ol). Weighted average: 99.35°C (210.8°F)
- Flash point** : Closed cup: Between 61°C (142°F) and 93.3°C (200°F)(Pensky-Martens.)
- Flammability (solid, gas)** : Not applicable.
- Explosive properties** : Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
- Explosion Limits** : The greatest known range is Lower: 2% Upper: 13% (propan-2-ol)
- Oxidising properties** : Not available.
- Relative density** : 1.036 g/cm³
- Solubility** : Easily soluble in hot water, diethyl ether, acetone.
Soluble in cold water.
Partially soluble in methanol.
- Viscosity** : Dynamic: The highest known value is 157 cP (alcohols, c11-14-iso-, c13-rich, ethoxylated)
- Evaporation rate (butyl acetate = 1)** : The highest known value is 1.7 (propan-2-ol) Weighted average: 0.41 compared to Butyl acetate.

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Other information

Auto-ignition temperature : The lowest known value is >200°C (392°F) (alcohols, c11-14-iso-, c13-rich, ethoxylated).

10. Stability and reactivity

Stability : The product is stable.
 Conditions to Avoid : Keep from any possible contact with water. (propan-2-ol)
 Hazardous Decomposition Products : These products are carbon oxides (CO, C₂), phosphates.

11. Toxicological information

Potential acute health effects

Inhalation : No specific hazard.
 Ingestion : No specific hazard.
 Skin Contact : Irritating to skin.
 Eye contact : Irritating to eyes.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
phosphoric acid	LD50	1530 mg/kg	Oral	Rat
	LD50	2740 mg/kg	Dermal	Rabbit
propan-2-ol	LD50	5045 mg/kg	Oral	Rat
	LD50	6410 mg/kg	Oral	Rabbit
	LD50	3600 mg/kg	Oral	Mouse
	LD50	12800 mg/kg	Dermal	Rabbit
	LD50	12800 mg/kg	Dermal	Rabbit
alcohols, c11-14-iso-, c13-rich, ethoxylated	LDLo	1537 mg/kg	Oral	Dog
	LDLo	3470 mg/kg	Oral	human
	LDLo	5272 mg/kg	Oral	man
ethoxylated gluconic acid, d-	LD50	200 to 2000 mg/kg	Oral	Rat
	LD50	2000 mg/kg	Oral	Rat

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Over-exposure signs/symptoms

Target organs : Contains material which causes damage to the following organs: lungs, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Other adverse effects : Not available.

12. Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
propan-2-ol	FATHEAD MINNOWS (EC50)	96 hour(s)	6550 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>1400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	6550 mg/l
	Pimephales promelas (LC50)	96 hour(s)	9640 mg/l
	Pimephales promelas (LC50)	96 hour(s)	10400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	11130 mg/l
	Pimephales promelas (LC50)	96 hour(s)	11130 mg/l
alcohols, c11-14-iso-, c13-rich, ethoxylated	Flora. (EC50)	72 hour(s)	1 to 10 mg/l
	LEUCISCUS IDUS (LC50)	96 hour(s)	1 to 10 mg/l

Mobility :

Other adverse effects : Not available.

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13. Disposal considerations

- Methods of disposal** : Avoid contact of spilled material and runoff with soil and surface waterways. Dispose of according to all federal, state and local applicable regulations.
- Waste classification** : Not applicable.
- European waste catalogue (EWC)** : Not available.
- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste

14. Transport information

International transport regulations

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

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Irritant

Risk phrases : R36/38- Irritating to eyes and skin.

Safety Phrases : S2- Keep out of the reach of children.

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.

S46- If swallowed, seek medical advice immediately and show this container or label.

S64- If swallowed, rinse mouth with water (only if the person is conscious).

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.

EC Statistical classification (Tariff Code) : 32089091

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16. Other information

Full text of R phrases referred to in sections 2 and 3 - Europe : R11- Highly flammable.
R22- Harmful if swallowed.
R34- Causes burns.
R36- Irritating to eyes.
R36/38- Irritating to eyes and skin.
R41- Risk of serious damage to eyes.
R67- Vapours may cause drowsiness and dizziness.

Full text of classifications referred to in sections 2 and 3 - Europe : F - Highly flammable
C - Corrosive
Xn - Harmful
Xi - Irritant

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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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