

JB SYSTEMS FOG LIQUID STANDARD ET HI-TECH

Version 2.0

This Material Safety Data Sheet in conforming to Regulations (EC) No 1907/2006, (EC) No 1272/2008 and their amendments deletes and replaces MSDS issued on June 01st 2010.

Reference 210021

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SAFETY DATA SHEET

SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1. Product Identifier

Product name: JB SYSTEMS FOG LIQUID STANDARD ET HI-TECH

Chemical product name: No data available

Synonyms: No data available

Proper shipping name: None

Chemical formula: No data available

Other means of identification: No data available

Index number: No data available

ID number: No data available

CAS number: No data available

REACH registration number: No data available

EC number: Not Available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Used as artificial smoke..

Uses advised against: No data available

1.3. Details of the supplier of the safety data sheet

Registered company name: BEGLEC NV
't Hofveld 2C ~ B1702 Groot-Bijgaarden ~ Belgique

Contact: De Bauw Luc: debauw.luc@beglec.com ~ Tél: +32 2 481.70.70

1.4. Emergency telephone number

Other emergency telephone numbers:

ORFILA (France) +33(0)1 45 42 59 59

UK :+44(0)2087628322

Other emergency telephone numbers:

+33(0)6 08 63 04 52

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

DSD classification: Not applicable

DPD classification: None

CLP classification: None

2.2. Label elements

CLP label elements

Signal word: None

Hazard statement(s): None

Precautionary statement(s): None under normal operating conditions

DSD / DPD label elements

Indication(s) of danger: CONSIDERED A NON DANGEROUS PREPARATION ACCORDING TO DIRECTIVE 1999/45/CE AND ITS AMENDMENTS

Safety advice: None under normal operating conditions.

2.3. Other hazards

None

PBT/vPvB criteria No data available

SECTION 3: Composition / information on ingredients

3.1. Substances

The product contains non classified glycols and de-mineralized water in various proportions

3.2. Mixtures

1. CAS No 2. EC No 3. Index No 4. REACH No	%[weight]	Name	Classification according to Directive 1999/45/EC [DPD]	Classification according to (EC) No 1272/2008 [CLP]
This preparation doesn't contains substances classified as dangerous for the human health or the environment, substance with PBT or vPvB criteria or substance with occupational exposures limits.				

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

No data available

Ingestion:

Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Eye Contact:

If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact:

If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Inhalation:

If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

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

Inhaled:

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Ingestion:

Although ingestion is not thought to produce harmful effects (as classified under EC Directives), the material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health).

Skin Contact:

The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

Eye:

Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).

Chronic:

Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility: None known

5.3. Advice for firefighters

Fire Fighting:

Use water delivered as a fine spray to control fire and cool adjacent area. **Do not** approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

Fire/Explosion Hazard:

Non combustibile. Not considered a significant fire risk, however containers may burn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Protective Equipment:

Glasses:	Gloves:
Chemical goggles.	When handling larger quantities:

Minor Spills:

Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite.

Major Spills:

Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact by using protective equipment. Prevent spillage from entering drains, sewers or water courses.

6.2. Environmental precautions

Not applicable

6.3. Methods and material for containment and cleaning up

Not applicable

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the MSDS

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe handling

Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with incompatible materials.

Fire and explosion protection See section 5

Other information Data not available

7.2. Conditions for safe storage, including any incompatibilities

Suitable container:

Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.

Storage incompatibility:

Avoid contamination of water, foodstuffs, feed or seed. None known

Package Material Incompatibilities: No data available

7.3. Specific end use(s)

See section 1.2

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Occupational Exposure Limits (OEL)

This preparation doesn't contain substance with occupational exposure limits.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

8.2.2. Personal protection

Eye and face protection:

Safety glasses with side shields Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

Skin protection:

See Hand protection: below

Hand protection:

Wear general protective gloves, eg. light weight rubber gloves. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity

Body protection:

See Other protection: below

Other protection:

No special equipment needed when handling small quantities. **OTHERWISE:** Overalls. Barrier cream. Eyewash unit.

Respiratory protection:

No data available

Thermal hazards:

No data available

Recommended material(s):

Not applicable

8.2.3. Environmental exposure controls

See section 12

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid
Odour	No data available
Odour threshold	No data available
Taste	No data available
pH (1% solution)	No data available
pH (as supplied)	Neutral
Melting point / freezing point (°C)	0
Initial boiling point and boiling range (°C)	95
Flash point (°C)	>99
Evaporation rate	No data available

Flammability	No data available
Vapour pressure (kPa)	No data available
Vapour density (Air = 1)	No data available
Relative density (Water = 1)	No data available
Solubility in Water (g/L)	Miscible
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature (°C)	No data available
Critical temperature (°C)	No data available
Viscosity (cSt)	10 cSt@40°C
Explosive properties	No data available
Oxidising properties	No data available
Physical state	Liquid
Upper Explosive Limit (%)	No data available
Lower Explosive Limit (%)	No data available
Surface Tension	No data available
Volatile Component (%vol)	No data available
Gas group	No data available
Molecular weight (g/mol)	No data available
Evaporation Rate (BuAc = 1 EtAc = 1 Ether = 1)	No data available
IUCLID Remarks	No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity See section 7.2

10.2. Chemical stability Product is considered stable and hazardous polymerisation will not occur.

10.3. Possibility of hazardous reaction : See section 7.2

10.4. Conditions to avoid See section 7.2

10.5. Incompatible materials See section 7.2

10.6. Hazardous decomposition products See section 5.3

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Mutagenicity: No data available

Reproductive Toxicity: No data available

Carcinogenicity: No data available

STOT - single exposure: No data available

SECTION 12: Ecological information

12.1. Toxicity

Fish: No data available

Daphnia Magna: No data available

Algae: No data available

Toxic to aquatic micro-organisms: No data available

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
JB SYSTEMS FOG LIQUID STANDARD ET HI-TECH	No Data Available	No Data Available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

	P	B	T
Relevant available data	No data available	No data available	No data available
PBT and vPvB Criteria fulfilled?	No data available	No data available	No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal:

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. A Hierarchy of Controls seems to be common - the user should investigate: Reduction **DO NOT** allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

Waste treatment options: No data available

Sewage disposal options: No relevant data

Other disposal recommendations: No data available

SECTION 14: Transport information

Labels Required: No

Land transport (ADR / RID / GGVSE)

14.1. UN number	No	14.4. Packing group	No
14.2. UN proper shipping name	No	14.5. Environmental hazard	No
14.3. Transport hazard class(es)	No	14.6. Special precautions for user	Hazard identification (Kemler) No Classification Code No Hazard Label No Special provisions No Add limited quantity No

Air transport (ICAO-IATA / DGR)

14.1. UN number	No	14.4. Packing group	No
14.2. UN proper shipping name	No	14.5. Environmental hazard	No
14.3. Transport hazard class(es)	ICAO/IATA Class: No ICAO/IATA Subrisk: No ERG Code No	14.6. Special precautions for user	Special provisions No Cargo Only Packing Instructions No Cargo Only Maximum Qty / Pack No Passenger and Cargo Packing Instructions No Passenger and Cargo Maximum Qty

			/ Pack No Passenger and Cargo Limited Quantity Packing Instructions No Passenger and Cargo Maximum Qty / Pack No
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Sea transport (IMDG-Code / GGVSee)

14.1. UN number	No	14.4. Packing group	No
14.2. UN proper shipping name	No	14.5. Environmental hazard	No
14.3. Transport hazard class(es)	No IMDG Subrisk No	14.6. Special precautions for user	EMS Number No Special provisions No Limited Quantities No

Inland waterways transport (ADNR / River Rhine)

14.1. UN number	No	14.4. Packing group	No
14.2. UN proper shipping name	No	14.5. Environmental hazard	No
14.3. Transport hazard class(es)	No ADNR Label No	14.6. Special precautions for user	Classification code No Limited quantity No Equipment required No Fire cones number No

14.7. Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

No data available

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

No data for JB SYSTEMS FOG LIQUID STANDARD ET HI-TECH

This safety data sheet is in compliance with the following EU legislation and its adaptations – as far as applicable - : 67/548/EEC, 1999/45/EC, 98/24/EC, 92/85/EEC, 94/33/EC, 91/689/EEC, 1999/13/EC, Regulation (EU) No 453/2010, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008, and their amendments as well as the following British legislation:

- The Control of Substances Hazardous to Health Regulations (COSHH) 2002

- COSHH Essentials

- The Management of Health and Safety at Work Regulations 1999

15.2. Chemical safety assessment

No data available

Annex VI

According to CLP no hazard category has been assigned

RISK

None under normal operating conditions

SECTION 16: Other information

OTHER

This Material Safety Data Sheet in conforming to Regulations (EC) No 1907/2006, (EC) No 1272/2008 and their amendments deletes and replaces MSDS issued on June 01st 2010.

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 16 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

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