

MATERIAL SAFETY DATA SHEET

1. IDENTITY INFORMATION AND COMPANY NAME

1.1 PRODUCT NAME	Askoll Formula Azure
1.2 PRODUCT USE	Additive for ornamental aquariums
1.3 COMPANY	Askoll Due spa, Via Industria 32-34, Dueville (VI) Tel. +39 0444 360100

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

The product is classified as dangerous according to the 1272/2008 (CLP) Regulation and subsequent amendments. The product requires a safety data sheet in accordance with the provisions of Regulation (CE) 1907/2006 and subsequent amendments. Further information on the risk to human health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

2.1.1 Regulation 1272/2008 (CLP) and following adjustments and amendments

Classification and warning statements:

Eye Irrit. 2	H319
Skin Irrit. 2	H315
STOT SE 3	H335
Resp. Sens. 1	H334
Skin Sens. 1	H317

2.1.2 Directives 67/548/CEE and 1999/45/CE and following adjustments and amendments

Danger symbol:

Xn

R phrases:

36/37/38-42/43

The full text of risk phrases (R) and hazard (H) phrases is given in section 16.

2.2 Label elements

Danger labelling under Regulation (CE) 1272/2008 (CLP) and following adjustments and amendments.



Warning: danger

H315 Causes skin irritation. **H335** May cause respiratory irritation. **H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled. **H317** May cause an allergic skin reaction. **H319** Causes serious eye irritation. **P264** Wash thoroughly after handling. **P280** Wear protective gloves/protective

clothing/eye protection/face protection. **P304+P341** IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. **P312** Call a POISON CENTER or doctor/physician if you feel unwell. **P403+P233** Store in a well-ventilated place. Keep container tightly closed.

Contains: Glutaraldehyde

2.3 Other hazards.

Information not available

3. COMPOSITION-INFORMATION ON INGREDIENTS

3.1 Substances

Information not relevant

3.2 Mixtures

Contains:

IDENTIFICATION	CONC. %	CLASSIFICATION 67/548/CEE	CLASSIFICATION 1272/2008 CLP
Glutaraldehyde	1,9	T R23/25, C R34, Xn R42/43, N R50	Acute Tox. 3 H301, Acute Tox. 3 H331, Skin Corr. 1B H314, STOT SE 3 H335, Resp. Sens. 1 H334, Skin. Sens. 1 H317, Aquatic Acute 1 H400 M=1
CAS. 111-30-8			
CE. 203-856-5			
INDEX. 605-022-00-X			

T+ = very toxic, T = toxic, Xn = harmful, C = corrosive, Xi = irritating, O = oxidizing, E = explosive, F+ = extremely flammable, N = dangerous for the environment (N)

The full text of risk phrases (R) and hazard (H) phrases is given in section 15.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Ingestion: obtain medical attention without delay. Do not induce vomiting; rinse mouth without swallowing

Inhalation: remove to fresh air. If breathing is irregular or stopped administer artificial respiration. Obtain medical attention.

Skin contact: remove contaminated clothes and wash thoroughly skin with soap and water.

Eye contact: Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if irritation persists.

4.2 Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by the contained substances see section 11.

4.3 Indication of any need for immediate medical attention and special treatment

Not available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

SUITABLE EXTINGUISHING MEDIA

The extinguishing media should be of the conventional kind: carbon dioxide, foam, powder and nebulized water.

UNSUITABLE EXTINGUISHING MEDIA

None in particular.

5.2 Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Avoid breathing combustion products

5.3 Advice for fire-fighters

GENERAL INFORMATION

Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full protection. Collected extinguishing water must not be discharged into drains. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

EQUIPMENT

Fireproof clothings, work gloves, respirator in the event of large quantities of smoke.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures.

Eliminate all sources of ignition (cigarettes, flames, etc.). Stop leak if without risk; do not handle damaged containers before wearing appropriate protective gear.

6.2 Environmental precautions

Prevent product from entering drains, surface water, ground water.

6.3 Methods and materials for containment and cleaning

Absorb spillage with inert absorbent material. Collect as much of the remaining material and deposit it in containers for disposal. Eliminate the rest using jets of water if there are no contraindications. Ensure adequate ventilation of the area affected by the loss. Disposal of contaminated material must be carried out in accordance with the provisions of section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not drink, eat or smoke while handling.

7.2 Conditions for safe storage, including any incompatibilities

Keep container closed, in a dry, cool, well ventilated place, away from heat sources or any source of ignition.

7.3 Specific end use

Information not available

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1 control parameters

DESCRIPTION	TYPE	STATUS	TWA/8h		STEL/15 MIN	
			mg/m ³	ppm	mg/m ³	ppm
GLUTARALDEHYDE	TLV			0,05		
	TLV-ACGIH			0,05		

8.2 Exposure controls

As the use of adequate technical equipment must always take priority over personal protection equipment, ensure good ventilation at the workplace through effective local aspiration. If these steps do

not keep the concentration of the product below the exposure limits in the workplace, wear suitable protection for the respiratory tract. During the use of the product see label for hazard details.

Hand Protection

Protect your hands with gloves of category II (directive 89/686/CEE, standard EN 374) such as neoprene, PVC, nitrile or equivalent. Glove material selection should consider: breakage time, degradation and permeation. For preparations the resistance of gloves should be checked before use, as it can be unpredictable. Gloves have a time limit related to exposure duration.

Eye protection

Air tight goggles (EN 166)

Skin protection

Long-sleeved overalls and safety footwear for professional category II use (directive 89/686/CEE, standard EN 344). Wash with water and soap after removing protective clothes.

Respiratory protection

In case of exceeding the threshold value (if available) of one or more of the substances present in the preparation for daily exposure in the environment of the workplace or to a fraction established by the company's prevention and protection, wear a mask with filter type A or B universal type; the class (1, 2 or 3) must be chosen according to the limit concentration of use (ref. EN 141).

The use of means of respiratory protection, such as masks as indicated above, is necessary in absence of technical measures limiting worker exposure. Protection provided by masks is however limited.

In the case where the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in case of emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17 % volume, wear self-contained open-circuit compressed air (ref. EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. EN 138).

Provide a system for eye wash and emergency shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	blue
Odour	pungent
pH	3,00 - 5,00
Melting or freezing	not available
Boiling point	not available
Flash point	not available
Solubility	soluble in water
Distillation range	not available
Evaporation rate	not available
Flammability of solids and gases	not available
Lower limit of flammability	not available
Upper limit of flammability	not available
Lower explosive limit	not available
Upper explosive limit	not available
Vapour pressure	not available
Vapour density	not available
Specific gravity	1 kg/L
Partition coefficient	not available
Auto ignition temperature	not available
Decomposition temperature	not available
Viscosity	not available
Oxidizing properties	not available

9.2 OTHER INFORMATION

Not available

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

There are no particular risk of reaction with other substances in normal conditions of use.

10.2 CHEMICAL STABILITY

The product is stable under normal conditions of use and storage

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No hazardous reactions are predictable under normal conditions of use and storage

10.4 CONDITIONS TO AVOID

None in particular.

10.5 INCOMPATIBLE MATERIALS

Information not available

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute effects: contact with eyes will cause irritation; symptoms may include redness, swelling, pain and tearing.

Inhalation of vapours causes irritation of the upper respiratory tract.

Contact with skin may cause irritation.

Ingestion may cause health problems, including stomach pain with sting, nausea and vomiting.

Inhalation of the product causes sensitization that can give rise to a series of inflammatory events, in most cases to obstructive character, affecting the respiratory system.

Sometimes sensitization phenomena tend to occur in association with rhinitis and asthma manifest in the subject. The damage to the respiratory system depends on the dose inhaled and therefore the concentration of the product in the workplace and the exposure time.

Upon contact with the skin it causes sensitization (dermatitis). Dermatitis arises as a result of inflammation of the skin, which begins in the skin areas which repeatedly come into contact with the sensitizing agent. The skin lesions may include erythema, edema, papules, vesicles, pustules, scales, ulcerations and exudative phenomena, which vary depending on the stage of the disease and the affected areas. In the acute phase prevail erythema, edema and exudation. In the chronic stages prevail scales, dryness, ulcerations and skin thickening.

Glutaraldehyde

LD50 (oral) 200 mg/kg Rat

LD50 (dermal) 1749 mg/kg Rabbit

LC50 (inhalation) 96 mg/m³ Rat

12. ECOLOGICAL INFORMATION

12.1 TOXICITY

Glutaraldehyde

LC50 (96h) – Fish 10.8 mg/L (*Pimephales promelas*)

EC50 (48h) – Crustaceans 0.69 mg/L (*Daphnia magna*)

12.2 PERSISTENCE AND DEGRADABILITY

Quickly biodegradable

12.3 BIOACCUMULATION POTENTIAL

Not available

12.4 MOBILITY IN SOIL

Not available

12.5 RESULTS OF PBT AND vPvB

Not available

12.6 OTHER ADVERSE EFFECT

Not available

13. DISPOSAL CONSIDERATIONS

13.1 METHODS OF WASTE TREATMENT

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 authorized waste management, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. TRANSPORT INFORMATION

The product is not considered dangerous under current provisions governing the transport of dangerous goods by road (ADR), and by rail (RID), by sea (IMDG Code) and by air (IATA).

15. REGULATORY INFORMATION

15.1. STANDARDS AND LEGISLATION, HEALTH AND SAFETY LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Seveso category. None

Restrictions relating to the product or contained substances pursuant to Annex XVII Regulation (CE) 1907/2006.

Product.

Point. 3

Substances in Candidate List (Art. 59 REACH).

None

Substances subjected to authorization (Annex XIV REACH).

None

16. MORE INFORMATION

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 3	Acute Toxicity category 3
Skin Corr. 1B	Skin Corrosion, category 1B
Eye Irrit. 2	Eye Irritation, category 2
Skin Irrit. 2	Skin Irritation, category 2
STOT SE 3	Specific Toxicity for Target organs – Single Exposition, category 3
Resp. Sens. 1	Respiratory Sensitization, category 1
Skin. Sens. 1	Skin Sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute category 1

H301 Toxic if swallowed

H331 Toxic if inhaled

H314 Causes severe skin burns and eye damage

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic organisms

Test of risk (R) phrases mentioned in section 2-3 of the sheet:

R23/25 Toxic by inhalation and ingestion.

R34 Cause burns.

R36/37/38 Irritating to eyes, respiratory system and skin

R42/43 May cause sensitization by inhalation and skin contact

R50 Very toxic to aquatic organisms.