

Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY / UNDERTAKING

Material Name : Astrofog
Recommended use : Fog enhancer to be used with Swingfog thermal fogger

Supplier : Astron Chemical Corporation Ltd
149 Smart Road
New Plymouth
New Zealand
Phone 067579853
Email pestfree1@xtra.co.nz

Emergency Telephone 0800243622

2. Hazards Identification.

Hazardous Substance. Non –Dangerous Goods.
Classified as hazardous according to criteria in The Hazardous Substances (Minimum Degrees of Hazard) Regulations 2991.

Not classified as Dangerous Goods according to NZS 5433- 3007

Hazardous Substances Classification : **6.1E**
Safety Hazards : No specific hazards

GHS Classification : Aspiration Hazard, Category 1

Signal words : Danger
GHS Hazard : Physical Hazards
Statements : Not classified as a physical hazard under GHS criteria
Health Hazards
May be fatal if swallowed and enters airways
Environmental Hazards
Not classified as an environmental hazard under GHS Criteria

GHS Precautionary statements : Prevention
No precautionary phrases.

Response:
If Swallowed: Immediately call a POISON CENTRE
Or doctor/physician
Do NOT induce vomiting.

Storage
Store locked up.

DISPOSAL:

Dispose of contents and container to appropriate Waste site or reclaimer in accordance with local and National regulations.

Other Hazards which do not result in classification

: Repeated exposure may cause skin dryness or cracking.
Slightly irritating to the eye
Slightly irritating to the respiratory system.

3. Composition/Information On Ingredients

Chemical Identity

: Alkalates < 90%
: Primary alcohol ethoxylate > 10%

4. First Aid Measures

Inhalation

: No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

Skin contact

: Remove contaminated clothing. Flush exposed area Water and by washing with soap if available.

Eye contact

: Flush eye with copious quantities of water. If persistent irritation occurs, obtain attention.

Ingestion

: If swallowed, do not induce vomiting: Transport to nearest medical Facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Notes to physician
Most important
Symptoms/effects
Acute & delayed

: If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and or fever. The onset of respiratory symptoms may be delayed for several hours after exposure.

Immediate medical
Attention, special treatment

: No specific recommendations.
Potential for chemical pneumonitis. Consider; Gastric lavage with protected airway, administration of activated charcoal. Call a doctor or poison Control centre for guidance.

5. Fire Fighting Measures

Clear fire area of all non-emergency personnel

Specific hazards

: Carbon monoxide may be evolved if incomplete Combustion occurs

Extinguishing Media

: Alcohol resistant foam, water spray or fog. Dry Chemical powder, carbon dioxide, sand or earth
May be used for small fires only.

Unsuitable extinguishing
Media

: Do not use water in a jet

Protective Equipment For
Fire-fighters

: Wear full protective clothing and self-contained breathing apparatus.

Additional advice

: Keep adjacent containers by spraying wit water

Hazchem code

: Not applicable. 2/6

6. ACCIDENTAL RELEASE MEASURES

Observe all relevant local and international regulations.

Personal Precautions,
Protective equipment and
Emergency procedures

Avoid contact with spilled or released material. immediately remove all contaminated clothing. for guidance on selection of personal proactive Equipment see Chapter 8 of this MSDS. For Guidance on disposal of spilled material see Chapter 13 of this MSDS Use the following as Appropriate;
Notify authorities if any exposure to the general Public or the environment occurs or is likely to. Local authorities should be advised if significant Spillages cannot be contained.
Keep animals off contaminated vegetation.
Stay upwind and keep out of low areas.
Be ready for fire or possible exposure.

Environmental
Precautions

: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Ventilate contaminated area thoroughly.

7. Handling and Storage
General Precautions

: avoid breathing vapours or contact with material. Wash thoroughly after handling. For guidance on selection of personal Protective equipment see Chapter 8 of this MSDS

Precautions for safe
Handling

: Avoid contact with skin, eyes, and clothing. Do not empty into drains.

Conditions for safe
Storage

: Keep in cool secure place Do not store above 45°C maximum.

Suitable storage materials

: Stainless steel, epoxy resins, polyester Poly ethylene.

Other Advice

: Ensure all other local regulations regarding Handling & storage facilities are followed.
Approved handler: Test certificate not required

8. Exposure control/Personal Protection

None established

Occupational Exposure Limits

Additional Information

: Wash hands before eating, drinking, smoking and using the toilet 3/6

Biological Limit Value (BLV) – See reference for full details
No biological limit allocated.

Individual Protection Measures	: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.
Respiratory Protection	: Select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Where air-filtering respirators are unsuitable (e.g., airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive breathing apparatus.
Hand Protection	: Where hand contact may occur the use of gloves approved to relevant standards (e.g. AS/NZS: 2161
Eye Protection	: Chemical splash goggles and or face mask Approved to AS/NZS : 1337
Protective Clothing	: Use chemical resistant one-piece overall with integral hood.
Thermal Hazards	: Not applicable
Environmental Exposure Controls	: Where material is heated, sprayed or mist is formed, there is greater potential for airborne concentrations to be generated.

Physical And Chemical Properties

Appearance	: Clear colourless liquid.
Odour	: Mild
Odour threshold	: Data not available.
Ph	: Data not available.
Initial Boiling Point	: 270°C
Melting / freezing point	: -21°C
Flash Point	: 145°C
Explosion/ Flammability Limits In Air	: Data not available
Auto-ignition Temperature	: Data not available.
Flammability (solid, gas)	: Data not available.
Vapour Pressure	: 3-4 hPa at 115°C
Density	: 860 kg/ m ³ @ 20°C
Water Solubility	: Insoluble.
Solubility In Other Solvents	: Data not available.
n-octanol/water partition coefficient	: 7.2

Decomposition temperature	: Note: Oxidises on contact with air. Stable up To 45 degrees C.
Dynamic Viscosity	: Data not available.
Viscosity, kinematic	: 7-8 mm ² /s at 20 degrees C
Vapour Density (air = 1)	: Data not available.
State of Aggregation	: Liquid
Evaporation rate (nBuAc=1)	: Data not available.

10. Stability and reactivity

Chemical stability	: Oxidises on contact with air Stable up to 45 degrees C.
Conditions to avoid	: Temperatures above 45 degrees C.
Incompatible materials	: Copper, copper alloys, aluminium. Strong oxidising agents.
Hazardous	: None expected under normal use conditions..

11. Toxicological information

Basis for assessment.	: Information given is based on product testing
Acute Toxicity	:
Fish	: Not toxic at limit of water solubility.
Aquatic invertebrates.	: Not toxic at limit of water solubility.
Algae	: Not toxic at limit of water solubility.
Microorganisms	: Not toxic at limit of water solubility
Mobility	: Adsorbs readily to soil and has low mobility, floats on water.
Persistence/degradability	: Readily biodegradable.
Bio accumulative potential	: Has the potential to bio-accumulate, although this is unlikely to occur due to metabolism and excretion.

Disposal Considerations

Material disposal	: Recover or recycle if possible. It is the Responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. This should be done in accordance with the Hazardous Substances (Disposal) Regulations 2001.
Container Disposal	: Drain container thoroughly and send the container to a suitable recycler.
Local Legislation	: Waste material should be combined with an inert material such as sawdust to form a stable sludge which can then be disposed

14. Transport Information

Land Transport Rule: Dangerous Goods 2005-NZS 5433:2007

This material is not classified as dangerous goods according to NZS 5433.

IMDG

This material is not classified as dangerous under IMDG regulations

IATA (Country variations may apply)

This material is not classified as dangerous under IATA regulations.

15. Regulatory Information.

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

HSNO Approval code	: HSR003320
TSCA	: Listed.
AICS	: Listed
DSL	: Listed
INV (CN)	: Listed
EINECS	: Listed
PICCS (PH)	: Listed
ENCS (JP)	: Listed

16. Other Information

MSDS Version Number	: 2
MSDS Effective Date	: 27/06/2016
MSDS Regulation	: The content and format of this MSDS to The best of the manufactures knowledge Is in accordance with HSNO Approved Code of Practice (No. HSNO CoP 8-1 09- 06) Preparation of Safety Data Sheets
Uses and Restrictions	: As a fog enhancer for use with Swingfog thermal fogging machines.
MSDS Distribution	: The information in this document should be made available to all who may handle this product.
Disclaimer	: This information is based on our current Knowledge and is intended to describe product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

