

Safety Data Sheet

Astro Nu-Guard AG

Revision 2 - 20th January 2020



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

1.1 Product identifier

Product Name : Astro Nu-Guard AG

Product Code : AFAGPNG

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

Use of substance / mixture : Anti Graffiti Coating

1.3. Details of the supplier of the safety data sheet

Company Name : Astroflame (Fireseals) LTD
Unit 8 , I.O Centre
Stephenson Road
Segensworth
Fareham
PO15 5RU
United Kingdom

Tel Number : (0) 44 1329 844500

Fax Number : (0) 44 1329 844600

Email : sales@astroflame.com

1.4. Emergency telephone number

Emergency telephone : (0) 44 1329 844 500 (Office hours only: 08:00 - 17:00)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP : Eye Irrit. 2: H319; -: EUH208

Most important adverse effects : Contains 3-(2-aminoethylamino)-propyltrimethoxysilane. May produce an allergic reaction. Causes serious eye irritation.

Label elements :

Hazard statements : EUH208: Contains 3-(2-aminoethylamino)-propyltrimethoxysilane. May produce an allergic reaction.
H319: Causes serious eye irritation.

2.2. Label elements

Hazard pictograms : GHS07: Exclamation mark

Signal words : Warning



Precautionary statements :

- P264: Wash hands thoroughly after handling.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+313: If eye irritation persists: Get medical attention.

2.3. Other hazards

PBT : This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients :

METHYL-0,0',0''-BUTAN-2-ONE-TRIOXIMOSILANE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
245-366-4	22984-54-9	-	Skin Irrit. 2: H315; Eye Irrit. 2: H319	1-10%

BUTANONE OXIME VINYLSILANE

218-747-8	2224-33-1	-	Skin Irrit. 2: H315; Eye Dam. 1: H318; Eye Irrit. 2: H319	1-10%
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3-(2-AMINOETHYLAMINO)-PROPYLTRIMETHOXYSILANE

217-164-6	1760-24-3	-	Eye Dam. 1: H318; Skin Sens. 1: H317	<1%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact	:	Wash immediately with plenty of soap and water.
Eye contact	:	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
Ingestion	:	Wash out mouth with water.
Inhalation	:	Not applicable.

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

Skin contact	:	There may be irritation and redness at the site of contact.
Eye contact	:	There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
Ingestion	:	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Inhalation	:	There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects	:	Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment	:	Not applicable.
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Section 5: Fire-Fighting measures

5.1. Extinguishing media

Extinguishing media	:	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
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5.2. Special hazards arising from the substance or mixture

Exposure hazards	:	In combustion emits toxic fumes.
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5.3. Advice for fire - fighters

Advice for fire - fighters	:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions : Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and materials for containment and cleaning up

Clean-up procedures : Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections : Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements : Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

Specific end use(s) : No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits : No data available.

DNEL/PNEC Values

DNEL / PNEC : No data available.

8.2. Exposure Controls

- Engineering measures** : Ensure there is sufficient ventilation of the area.
- Respiratory protection** : Self-contained breathing apparatus must be available in case of emergency.
- Hand protection** : Protective gloves.
- Eye protection** : Tightly fitting safety goggles. Ensure eye bath is to hand.
- Skin protection** : Protective clothing.

9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- State** : Liquid
- Colour** : Colourless
- Odour** : Perceptible odour
- Solubility in water** : Insoluble
- Relative density** : 1.00

9.1. Other information

Other information : No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity : Stable under recommended transport or storage conditions.

10.2. Chemical Stability

Chemical stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid : Heat.

10.5. Incompatible materials

Materials to avoid : Strong oxidising agents. Strong acids.

10.6. Hazardous Decomposition Products

Haz. decomp. products : In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values :

Route	Species	Test	Value	Units
ORAL	RAT	LD50	>1000	mg/kg
VAPOURS	ORAL	4H LC50	>50	mg/l

Relevant hazards for product :

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms/routes of exposure

- Skin contact** : There may be irritation and redness at the site of contact.
- Eye contact** : There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
- Ingestion** : There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
- Inhalation** : There may be irritation of the throat with a feeling of tightness in the chest.
- Delayed / immediate effects** : Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values :

Species	Test	Value	Units
BLUEGILL (<i>Lepomis macrochirus</i>)	96H LC50	48	mg/l
Daphnia magna	48H EC50	750	mg/l

12.2. Persistence and Degradability

Persistence and degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : No bioaccumulation potential.

12.4. Mobility in soil

Mobility in Soil : Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification : This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects : Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

- Disposal operations** : Transfer to a suitable container and arrange for collection by specialised disposal company.
- NB** : The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

- Transport class** : This product does not require a classification for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Specific regulations** : Not applicable.

15.2. Chemical safety assessment

- Chemical safety assessment** : A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

- Other information** : This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.
* indicates text in the SDS which has changed since the last revision.
- Phrases used in s.2 and s.3** : EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.
H319: Causes serious eye irritation.
- Legal disclaimer** : The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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