SAFETY DATA SHEET

according to Safe Work Australia

HARDENER FOR AQUALINE PU PRO & NON- SLIP CLEAR PRO

1. Product identifier and identity for the chemical

Product identifier

Trade name: HARDENER FOR AQUALINE PU PRO & NON-SLIP CLEAR PRO

Recommended use of the chemical and restrictions on use

General use: Coating agent

Suppliers name, address and phone number

Company name: Stellmann Coatings
Street/POB-No.: 448 City Road
Postal Code, city: South Melbourne, Victoria 3205
Australia
WWW:
E-mail: info@stellmann.com.au
Telephone: +61 (0) 3 7020 2041

Emergency phone number

Australia – 1800 033 111

Tox-Zentrum Zürich, +41 / 44 / 251 51 51, or 145

2. Hazard Identification

Classification of the hazardous chemical

GHS classification

Acute toxicity - inhalation - Category 4	Harmful if inhaled.
Sensitisation - skin - Category 1	May cause an allergic skin reaction.
Specific target organ toxicity (single exposure) - Category 3	May cause respiratory irritation.

Label elements

Signal word: **Warning**

Hazard statements: May cause an allergic skin reaction.
Harmful if inhaled.
May cause respiratory irritation.

Precautionary statements:

Wear protective gloves/protective clothing/eye protection.

IF ON SKIN: IF ON SKIN: Wash with plenty of soap and water.

Store locked up.

Dispose of contents/container to hazardous or special waste collection point.

Other hazards which do not result in classification

Special danger of slipping by leaking/spilling product.

3. Composition/information on ingredients

Mixtures

Identity of chemical ingredients:

Oligomers of isocyanates

Hazardous ingredients:

CAS No.	Designation	Concentration	Classification
CAS 28182-81-2	Hexamethylene diisocyanate, oligomerisation product	>= 50 %	Acute toxicity - inhalation - Category 4. Sensitisation - skin - Category 1. Specific target organ toxicity (single exposure) - Category 3.
CAS 822-06-0	Hexamethylene-1,6-di-isocyanate	(impurity) < 0.26%	Acute toxicity - inhalation - Category 3. Skin irritation - Category 2. Eye irritation - Category 2A. Sensitisation - respiratory - Category 1. Sensitisation - skin - Category 1. Specific target organ toxicity (single exposure) - Category 3.

4. First Aid Measures

Description of necessary first aid measures

General information: If medical advice is needed, have product container or label at hand.
Take off immediately all contaminated clothing and wash it before reuse. If unconscious and breathing is OK, place in the recovery position and seek medical advice.
First aider: Pay attention to self-protection!

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.

Following skin contact: Immediately wipe affected skin area with paper towel or cloth.
Thoroughly wash skin with soap and water. Take off contaminated clothing and wash it before reuse.
In case of skin reactions, consult a physician. Avoid strong ultraviolet radiation.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist. In case of eye contact: avoid strong ultraviolet radiation.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.

Symptoms caused by exposure

Harmful if inhaled. May cause respiratory irritation.
May cause an allergic skin reaction.

Medical Attention and Special Treatment

Treat symptomatically.

5. Fire Fighting Measures

Suitable extinguishing media

Water mist, alcohol resistant foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

May form dangerous gases and vapours in case of fire.
Furthermore, there may develop: Nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

Special protective equipment and precautions for fire fighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Hazchem-Code: -

Use fine water spray to cool endangered containers.
Do not allow water used to extinguish fire to enter drains, ground or waterways.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Avoid contact with the substance. Eliminate all ignition sources if safe to do so.
If possible, eliminate leakage. Provide adequate ventilation.
Wear appropriate protective equipment. Keep unprotected people away.
Take off immediately all contaminated clothing and wash it before reuse.

Environmental precautions

Do not allow to enter into ground-water, surface water or drains.
If necessary notify appropriate authorities.

Methods and material for containment and cleaning up

Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions.
Never return spills in original containers for re-use.

Additional information: Special danger of slipping by leaking/spilling product.

7. Handling and Storage

Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe vapours. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse.
Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:
Keep away from heat. Keep away from sources of ignition.
When handling larger quantities, take precautionary measures against electrostatic charging.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:
Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight.
Store containers in upright position. storage temperature: 5 °C up to 22 °C.

Hints on joint storage: Do not store together with oxidizing agents, strong acids or strong bases. Keep away from food, drink and animal feedingstuffs.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

Appropriate engineering controls

Provide adequate ventilation, and local exhaust as needed.

Personal protective equipment (PPE)

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn according to AS/NZS 1715 and AS/NZS 1716 whenever the WEL levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Protective gloves according to AS/NZS 2161.
Glove material: polyethylene
Unsuitable materials: Rubber, PVC
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed eye protectors according to AS/NZS 1337.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Do not breathe vapours. Do not get in eyes, on skin, or on clothing.
Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Do not allow to enter into ground-water, surface water or drains.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Colour: light yellow
Odour:	No data available
Odour threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	(derived) 100 °C
Flash point/flash point range:	not applicable
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	LEL (Lower Explosion Limit): not applicable UEL (Upper Explosive Limit): not applicable
Vapour pressure:	No data available
Vapour density:	No data available
Density:	at 25 °C: 1.15 g/cm³
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available

Additional information

Viscosity, dynamic:	at 25 °C: 600 mPa*s
Volatile organic compounds content (VOC):	0.0 % by weight

10. Stability and Reactivity

Reactivity: Polymerization can occur under certain conditions.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions:

May undergo uncontrolled exothermic polymerization upon contact with peroxides, reactive metals, strong alkaline material and radical former.

Conditions to avoid: Keep away from heat. Conditions to avoid: Strong ultraviolet radiation.

Incompatible materials: Strong oxidizing agents, strong acids, strong alkalis, peroxides and Metals.

Hazardous decomposition products:
No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

11. Toxicological information

Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Acute toxicity - inhalation - Category 4 = Harmful if inhaled.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitisation - skin - Category 1 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Specific target organ toxicity (single exposure) - Category 3 = May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Symptoms

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.
In case of ingestion:
Ingestion may cause nausea, weakness and affect the central nervous system.
After contact with skin:
Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin.

12. Ecological information

Ecotoxicity

Further details: No data available

Persistence and degradability

Further details: No data available

Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

Mobility in soil

No data available

Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Waste treatment methods

Product

Recommendation: Dispose of waste according to applicable legislation.

Package

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.

14. Transport information

Land transport (ADG)

Product designation: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted
Marine pollutant: no

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

Hazchem-Code:

-

15. Regulatory information

National regulations - Australia

AICS: All ingredients are listed or exempt from listing.

Further regulations, limitations and legal requirements

No data available

16. Other information

Text for labelling: Contains Hexamethylene diisocyanate, oligomerisation product 50 - 100%
Hexamethylene-1,6-di-isocyanate < 0.1 %

Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL: Occupational Exposure Limit Value
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EN: European Standard
IATA: International Air Transport Association
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
PVC: Polyvinyl chloride
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
TLV: Threshold Limit Value
UV: Ultraviolet
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

Date of first version: 29/01/2024

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.