Safety Data Sheet
UCOPOL W708

Version:1 Revision date: 15/5/2015

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

1.1. Product identifier
Trade name:
UCOPOL W708

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use: Hardener for coating materials or adhesives for industrial and trade applications.
Uses advised against: Not suitable for DIY use.

1.3. Details of the supplier of the safety data sheet
S.A.P.I.C.I. Spa Via Bergamo, 2 - 20063 Cernusco s/N (MI)
Tel +39 02 921871 Fax +39 02 92102331
Responsible for the safety data sheet: HSE@sapici.it

1.4. Emergency telephone number
Poison Center - Niguarda Hospital - Milan - Tel. +39 02 66101029

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):


Warning, Flam. Liq. 3, Flammable liquid and vapour.


Warning, Skin Irrit. 2, Causes skin irritation.


Warning, Eye Irrit. 2, Causes serious eye irritation.


Warning, Skin Sens. 1, May cause an allergic skin reaction.


Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements

Labelling (1272/2008/CE):
Symbols:

Warning

Hazard statements:

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P314 Get medical advice/attention if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P370+P378 In case of fire: Use powder, foam or CO2 for extinction.

Special Provisions:

EUH204 Contains isocyanates. May produce an allergic reaction.

Contents:

hexamethylene diisocyanate homopolymer
xylene

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

The product is a liquid that can catch fire at temperatures in excess of 21 °C if exposed to an ignition source.
If brought into contact with the skin, the product may cause sensitisation of the skin.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
~65 %	hexamethylene diisocyanate	CAS: 28182-81-2 EC: 500-060-2	3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317

	homopolymer		
~20 %	2-methoxy-1-methylethyl acetate	Index number: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 REACH No.: 01-2119475791-29	2.6/3 Flam. Liq. 3 H226
~10 %	xylene	Index number: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7 REACH No.: 01-2119488216-32	2.6/3 Flam. Liq. 3 H226 3.1/4/Dermal Acute Tox. 4 H312 3.1/4/Inhal Acute Tox. 4 H332 3.10/1 Asp. Tox. 1 H304 3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H335 3.9/2 STOT RE 2 H373
~5 %	Hydrocarbons, C9, aromatics	EC: 918-668-5 REACH No.: 01-2119455851-35	2.6/3 Flam. Liq. 3 H226 3.8/3 STOT SE 3 H336 3.10/1 Asp. Tox. 1 H304 3.8/3 STOT SE 3 H335 4.1/C2 Aquatic Chronic 2 H411 EUH066

vPvB Substances: None - PBT Substances: None

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:
Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.
Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:
Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.

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

None

4.3. Indication of any immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Fire extinguishing powder, foam or CO2. Use foam and water jets only in case of extensive fire outbreak.
Extinguishing media which must not be used for safety reasons: high volume water jet.

5.2. Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for firefighters
Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Remove all sources of ignition.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions
Do not allow to escape into waterways, wastewater or soil.
Retain contaminated washing water and dispose it in compliance with the local and national regulations currently in force.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up
Cover the spilling with wet, absorbent material (e.g. sawdust, chemical binder based on calcium silicate hydrate, sand) and remove mechanically.
After approx. one hour transfer to waste container and do not seal (evolution of CO2!). Keep damp in a safe ventilated area for several days.

6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contamined clothing should be changed before entering eating areas.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep this product in a dry place.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Further information on the storage conditions which must be observed to preserve quality can be found in our product information sheet.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
- VLE 8h - 275 mg/m3 - 50 ppm
- VLE short - 550 mg/m3 - 100 ppm

DNEL Exposure Limit Values
xylene - CAS: 1330-20-7
- Worker Industry: 221 03 - Exposure: Human Inhalation - Frequency: Long Term (repeated)
- Worker Industry: 442 03 - Exposure: Human Inhalation - Frequency: Short Term (acute)
- Worker Industry: 3182 04 - Exposure: Human Dermal - Frequency: Long Term (repeated)

PNEC Exposure Limit Values
xylene - CAS: 1330-20-7
- Target: Fresh Water - Value: 0.25 mg/l
- Target: Marine water - Value: 0.25 mg/l
- Target: Soil (agricultural) - Value: 2.41 mg/kg

8.2. Exposure controls

Eye protection:
Use safety goggles or close fitting safety goggles, don't use eye lens.

Skin protection:
Wear suitable protective clothing.

Hand protection:
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:
Use adequate protective respiratory equipment, e.g. A2-P2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Colourless liquid	--	--
Odour:	Of solvent	--	--
Odour threshold:		--	--
pH:		--	--
Melting point / freezing point:		--	--
Boiling point:		--	--
Flash point:	28 °C	--	--
Evaporation rate:		--	--
Solid/gas flammability:		--	--
Upper/lower flammability or explosive limits:		--	--
Vapour pressure:	0.82 kPa @ 20°C	--	--
Vapour density:	> 1	--	--
Relative density:	1.06 g/cm3	--	--
Solubility in water:	Insoluble, REACTS WITH WATER	--	--
Solubility in oil:		--	--
Partition coefficient (n-octanol/water):		--	--
Auto-ignition temperature:		--	--
Decomposition temperature:		--	--
Viscosity:		--	--
Explosive properties:		--	--
Oxidizing properties:		--	--

The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:		--	--
Fat Solubility:		--	--
Conductivity:		--	--
Substance Groups relevant properties		--	--

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions

10.2. Chemical stability
Stable under normal conditions

10.3. Possibility of hazardous reactions
It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth, alloys in powder or vapours) and powerful reducing agents.
It may generate toxic gases on contact with oxidising mineral acids, and powerful oxidising agents.
It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.

10.4. Conditions to avoid
Stable under normal conditions.

10.5. Incompatible materials
Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological information of the mixture:
N.A.
Toxicological information of the main substances found in the mixture:
xylene - CAS: 1330-20-7
a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat 5000 Ppm - Duration: 4h
Test: LD50 - Route: Skin - Species: Rabbit > 1700 mg/kg
Hydrocarbons, C9, aromatics -
Inhalation: LC 50 > 6,193 mg/l
dermal: LD 50 >3160 mg/Kg
oral: LD 50 >3492 mg/Kg

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:
a) acute toxicity;
b) skin corrosion/irritation;
c) serious eye damage/irritation;
d) respiratory or skin sensitisation;
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) STOT-single exposure;
i) STOT-repeated exposure;
j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt sound working practices, so that the product is not released into the environment.
Hydrocarbons, C9, aromatics

Endpoint: EC50 - Species: Daphnia - Duration h: 48 - mg/l: 3.2
Endpoint: LC50 - Species: Fish - mg/l: 9.2

12.2. Persistence and degradability

Information not available.

12.3. Bioaccumulative potential

Information not available.

12.4. Mobility in soil

Information not available.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

Information not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number

ONU Number:	UN 1866
CLASS:	3
PACKING GROUP:	III
DANGEROUS LABELS:	3
KEMLER NUMBER:	30
	Exemption regarding limited quantities is applicable, according to chapter 3.4 ADR / RID in accordance with permitted quantitative limits

IMDG:

ONU Number:	UN 1866
CLASS:	3
PACKING GROUP:	III
DANGEROUS LABELS:	3
EMS:	F-E,S-E
MARINE POLLUTANT:	N.R.

ICAO:

ONU Number:	UN 1866
CLASS:	3
PACKING GROUP:	III
DANGEROUS LABELS:	3

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP)
Regulation (EU) n. 453/2010 (Annex II)
Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Where applicable, refer to the following regulatory provisions:
Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.
Regulation (EC) nr.648/2004 (detergents).
1999/13/EC (VOC directive)

Provisions related to directives 82/501/EC(Seveso), 96/82/EC(Seveso II):

N.A.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Text of phrases referred to under heading 3:

H317 May cause an allergic skin reaction.
H226 Flammable liquid and vapour.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU.
This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances (1983)
I.N.R.S. - Fiche Toxicologique
CCNL - Appendix 1 "TLV for 1989-90"
Advanced Health Institute - National Chemical Substances Inventory

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.