



Safety Data Sheet (REACH CE N° 1907/2006 - N° 453/2010)

Del: 25/05/2015	TECNOCOOL Z 600 EF/AM Rev.1	Pag 1 di 9
-----------------	-----------------------------	------------



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

- 1.1. Product identifier
Mixture identification:
Trade name: TECNOCOOL Z 600 EF/AM
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Metalworking
- 1.3. Details of the supplier of the safety data sheet
Company:
HYPROINDUSTRIAL S.r.l.
V.le Volta, 41 - 20090 Cusago (MI) ITALY
tel. +39 02 90 338 1 fax +39 02 90338 251
Competent person responsible for the safety data sheet:
info@hyproindustrial.it - sds@lubrotechitalia.com
- 1.4. Emergency telephone number
Telephone 02-90338.1 (9.00 - 17.00)

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)
 - 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.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:



Warning

Hazard statements:

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.

Precautionary statements:

- P264 Wash with water and soap thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:



Safety Data Sheet (REACH CE N° 1907/2006 - N° 453/2010)

Del: 25/05/2015	TECNOCOOL Z 600 EF/AM Rev.1	Pag 2 di 9
-----------------	-----------------------------	------------

None

Contains

2-metil-2H-isotiazol-3-one

1,2-benzisotiazol-3(2H)-one; 1,2-benzisotiazolin-3-one: May produce an allergic reaction.

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

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

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
50% - 60%	Distillates (petroleum), hydrotreated light naphthenic	CAS: 64742-53-6 EC: 265-156-6	3.10/1 Asp. Tox. 1 H304
3% - 5%	boric acid	Index number: 005-007-00-2 CAS: 10043-35-3 EC: 233-139-2	3.7/1B Repr. 1B H360FD
1% - 3%	Carboxylic acid neutralized Amine		3.3/2 Eye Irrit. 2 H319 3.2/2 Skin Irrit. 2 H315
1% - 3%	Cetyloleic acid etoxylated 2OE	CAS: 68920-66-1	3.2/2 Skin Irrit. 2 H315
1% - 3%	2-MERCAPTOPIRIDINA-N-OSSIDO, SALE SODICO	CAS: 3811-73-2 EC: 223-296-5	3.1/4/Inhal Acute Tox. 4 H332 3.1/4/Dermal Acute Tox. 4 H312 3.1/4/Oral Acute Tox. 4 H302 3.3/2 Eye Irrit. 2 H319 3.2/2 Skin Irrit. 2 H315 4.1/A1 Aquatic Acute 1 H400
1% - 3%	Sulfonic acids, petroleum, sodium salts	CAS: 68608-26-4	3.3/2 Eye Irrit. 2 H319
1% - 3%	2-metil-2H-isotiazol-3-one	CAS: 2682-20-4 EC: 220-239-6	3.1/4/Oral Acute Tox. 4 H302 3.1/2/Inhal Acute Tox. 2 H330 3.2/1B Skin Corr. 1B H314 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317 4.1/A1 Aquatic Acute 1 H400
0.5% - 1%	2-aminoethanol;	Index 603-030-00-8	3.2/1B Skin Corr. 1B H314



Safety Data Sheet (REACH CE N° 1907/2006 - N° 453/2010)

Del: 25/05/2015

TECNOCOOL Z 600 EF/AM Rev.1

Pag 3 di 9

	ethanolamine	number: CAS: 141-43-5 EC: 205-483-3	3.1/4/Oral Acute Tox. 4 H302 3.1/4/Dermal Acute Tox. 4 H312 3.1/4/Inhal Acute Tox. 4 H332
0.1% - 0.25%	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	Index number: 613-088-00-6 CAS: 2634-33-5 EC: 220-120-9	3.1/4/Oral Acute Tox. 4 H302 3.2/2 Skin Irrit. 2 H315 3.3/1 Eye Dam. 1 H318 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317 4.1/A1 Aquatic Acute 1 H400

SVHC Substances:

3% - 5% boric acid

Index number: 005-007-00-2, CAS: 10043-35-3, EC: 233-139-2

Substance SVHC

The content of DMSO extract in mineral oils base is less than 3% (method IP 346/92), and therefore is not applicable to the classification of carcinogenicity (Directive 94/69 / EC, known L).

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.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

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).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:



Safety Data Sheet (REACH CE N° 1907/2006 - N° 453/2010)

Del: 25/05/2015

TECNOCOOL Z 600 EF/AM Rev.1

Pag 4 di 9

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

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 enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

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.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



Safety Data Sheet (REACH CE N° 1907/2006 - N° 453/2010)

Del: 25/05/2015

TECNOCOOL Z 600 EF/AM Rev.1

Pag 5 di 9

boric acid - CAS: 10043-35-3

ACGIH - LTE(8h): 2 mg/m³ - STE: 6 mg/m³ - Notes: (I), A4 - URT irr

2-aminoethanol; ethanolamine - CAS: 141-43-5

EU - LTE(8h): 2,5 mg/m³, 1 ppm - STE: 7,6 mg/m³, 3 ppm - Notes: Bold-type:

Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH - LTE(8h): 3 ppm - STE: 6 ppm - Notes: Eye and skin irr

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

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

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Appearance and colour:	yellow clear liquid	--	--
Odour:	N.A.	--	--
Odour threshold:	N.A.	--	--
pH:	9,3	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	> 100°C ° C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	0.940	--	--
Solubility in water:	Emulsionabile	--	--



Safety Data Sheet (REACH CE N° 1907/2006 - N° 453/2010)

Del: 25/05/2015

TECNOCOOL Z 600 EF/AM Rev.1

Pag 6 di 9

Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

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

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

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

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:

2-MERCAPTOPIRIDINA-N-OSSIDO, SALE SODICO - CAS: 3811-73-2

a) acute toxicity:

Test: LC50 - Route: Oral - Species: Mouse = 3750 mg/kg - Notes: ATE

Test: LC50 - Route: Skin - Species: Mouse = 4500 mg/kg - Notes: ATE

Test: LC50 - Route: Inhalation Mist - Species: Mouse = 2.7 mg/l - Duration: 4h - Notes: ATE

2-MERCAPTOPIRIDINA-N-OSSIDO, SALE SODICO - CAS: 3811-73-2

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

a) acute toxicity;

b) skin corrosion/irritation;



Safety Data Sheet (REACH CE N° 1907/2006 - N° 453/2010)

Del: 25/05/2015

TECNOCOOL Z 600 EF/AM Rev.1

Pag 7 di 9

- 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 good working practices, so that the product is not released into the environment.

2-MERCAPTOPIRIDINA-N-OSSIDO, SALE SODICO - CAS: 3811-73-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 0.15 mg/l - Duration h: 48 - Notes: dalphia magna

Endpoint: EC50 - Species: Fish = 0.23 mg/l - Duration h: 48 - Notes: selenastrum capricornutum

Endpoint: LC50 - Species: Fish = 3.2 mg/l - Duration h: 96 - Notes: leponis macrochirus

12.2. Persistence and degradability

None

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

N.A.



Safety Data Sheet (REACH CE N° 1907/2006 - N° 453/2010)

Del: 25/05/2015

TECNOCOOL Z 600 EF/AM Rev.1

Pag 8 di 9

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) and (EU) n. 758/2013
 - Regulation (EU) 2015/830
 - Regulation (EU) n. 286/2011 (ATP 2 CLP)
 - Regulation (EU) n. 618/2012 (ATP 3 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 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

SVHC Substances:

Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):

boric acid

Toxic to reproduction

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

Full text of phrases referred to in Section 3:

H304 May be fatal if swallowed and enters airways.

H360FD May damage fertility. May damage the unborn child.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H332 Harmful if inhaled.

H312 Harmful in contact with skin.

H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

H330 Fatal if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

CCNL - Appendix 1



Safety Data Sheet (REACH CE N° 1907/2006 - N° 453/2010)

Del: 25/05/2015

TECNOCOOL Z 600 EF/AM Rev.1

Pag 9 di 9

Insert further consulted bibliography

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.

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.