SAFETY DATA SHEET according to Regulation 1907/2006

Product name: **MCU-ZINC HH**
Creation date: **10.07.2008**
Revision: : **14.11.2012**
Version: **1**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1.IDENTIFICATION OF THE SUBSTANCE/PREPARATION

chemius.net/Wxq8f

Product name:

MCU-ZINC HH

Product code:

no information

1.2. USE OF THE SUBSTANCE/PREPARATION

Use:

Coating for metal.

Uses advised against:

no information

1.3. COMPANY/UNDERTAKING IDENTIFICATION

Supplier

MCU Coatings International S.L.
Address: Partida La Olla 1 Edificio Atalaya del Mar Local 6, 03590 ALTEA (ALICANTE), Spain
Tel.: +34 965 84 14 36
e-mail: info@mcucoatings.com
Point of contact for safety info: MCU Coatings

1.4. EMERGENCY TELEPHONE

Emergency:

112

Supplier:

+34 965 84 14 36

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF SUBSTANCE/PREPARATION

Classification according to Reg. 1272/2008 (CLP)

H225: Highly flammable liquid and vapour.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Classification according to directive 67/548/EEC or. 99/45/EC

N: Dangerous for the environment
F: Highly flammable

(R11) Highly flammable.
(R50/53) Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 LABEL ELEMENTS

Signal word: **Danger**

H225: Highly flammable liquid and vapour.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
P102: Keep out of reach of children.
P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P273: Avoid release to the environment.
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P391: Collect spillage.
P403 + P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container in accordance with local regulation.

2.3. Other hazards

No information

2.4. Contains:

-

2.5. Special provisions

Symptoms for excessive exposure and effects on health are indicated in section 4. in Safety Data Sheet.

3. COMPOSITION/INFORMATION ON INGREDIENTS

-	**Substance:**	☐
-	**Preparation/mixture:**	X

Chemical name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification according to directive 67/548/EEC or 99/45/EC	REACH reg. number
zinc powder - zinc dust (stabilised)	7440-66-6 231-175-3 030-001-01-9	50-100	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	N; R50/53	-
ethanol	64-17-5 200-578-6 603-002-00-5	2,5-10	Flam. Liq. 2; H225	F; R11	-
Xylene *(C)*	1330-20-7 215-535-7 601-022-00-9	2,5-10	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Acute Tox. 4; H312, H332	Xn; R20/21 Xi; R38 R10	-
Solvent naphtha (petroleum), light arom. *(H, P)*	64742-95-6 265-199-0 649-356-00-4	1-5	Flam. Liq. 1; H224 Asp. Tox. 1; H304 STOT SE 3; H335 Aquatic Chronic 2; H411	Xn; R65 Xi; R37 N; R51/53 R10	-
Solvent naphtha (petroleum),	64742-89-8	2,5-5	Flam. Liq. 2; H225	F; R11	-

light aliph. *(H, P)*	265-192-2 649-267-00-0		Asp. Tox. 1; H304 Skin Irrit. 2; H315 Aquatic Chronic 2; H411	Xn; R65 Xi; R38 N; R51/53	
tetraethyl silicate	78-10-4 201-083-8 014-005-00-0	2,5-5	Flam. Liq. 3; H226 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335	Xn; R20 Xi; R36/37 R10	-
Naphtha (petroleum), hydrotreated light steam-cracked *(H, P)*	92045-57-3 295-438-4 649-339-00-1	< 2,5	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336 Aquatic Chronic 2; H411	F; R11 Xn; R65 Xi; R36/38 N; R51/53 R67	-

Notes for substances:

C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
H	The classification and labelling shown for this substance applies to the hazardous property(ies) indicated by the hazard statement(s) in combination with the hazard class(es) and category(ies) shown. The requirements of Article 4 for manufacturers, importers or downstream users of this substance apply to all other hazard classes and categories. For hazard classes where the route of exposure or the nature of the effects leads to a differentiation of the classification of the hazard class, the manufacturer, importer or downstream user is required to consider the routes of exposure or the nature of the effects not already considered. The final label shall follow the requirements of Article 17 and of section 1.2 of Annex I.
P	The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

4. FIRST AID MEASURES

4.1. First-aid measures

General measures:

Never give anything by mouth to an unconscious person.

Skin contact:

Immediately remove contaminated clothing. Wash thoroughly with plenty of water and soap! If feeling unwell seek medical help.

Eye contact:

If the victim is wearing contact lenses, remove them. Hold the eyelids apart while thoroughly rinsing the eyes with water for at least 10 minutes. Leave the eyes to rest for 30 minutes. If the irritation remains or intensifies, contact a physician.

Inhalation:

Ventilate the premises. Inhale fresh air. Remove patient to fresh air-move out of dangerous area. If difficulties with breathing do not stop, search for medical help.

Ingestion:

Do not induce vomiting. Immediately consult a specialist.

4.2. Symptoms

Skin contact:

No data available.

Eye contact:

No data available.

Inhalation:

Vapours may cause drowsiness and dizziness.

Ingestion:

May cause lung damage.

5. FIRE-FIGHTING MEASURES

5.1. Suitable extinguishing media:

Use the usual extinguishing measures (carbon dioxide (CO_2), dry chemical, foam; water spray)

5.2. Extinguishing media which must not be used for safety reasons:

Water jet.

5.3. Special exposure hazards:

Hazardous combustion products:

-

5.4. Advice for firefighters:

Protective actions:

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray jet. If possible remove containers from endangered area.

Special protective equipment for fire-fighters:

Wear suitable breathing protection.

5.5. Additional information:

-

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal safety precautions:

Wear suitable protective face mask, protective gloves and clothing. Do not breathe vapours/smoke!

6.2. Environmental precautions:

Do not allow product to reach water/drains/sewage systems and ground water. If accidental entry into water or ground occurs, inform responsible authorities.

6.3. Methods for cleaning up:

Absorb with earth and send. Prevent product to reach water bodies or sewage systems. Absorb with inert material (sand, flinstone (diatomite soil), universal binder, sawdust). Clean contaminated area with plenty of water.

7. HANDLING AND STORAGE

7.1. Handling:

Do not breathe vapours/mist. Avoid contact with skin and eyes. Do not eat, drink or smoke while working.

7.2. Storage - technical measures and storage conditions:

Keep in tightly closed container. Keep container in a well ventilated place. Keep away from open fire, heat, sparks and direct sunlight. Store in a well ventilated place.

7.3. Compatible packaging materials

-

7.4. Specific use(s):

-

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values (IUCLID)

Chemical name	value		interval x time		Type
Xylene (1330-20-7)	100	ml/m3	150	ml/m3 (4 x 15min)	OES (UK)
ethanol (64-17-5)	500	ml/m3	2000	ml/m3 (3 x 60min)	MAK (DE)
Solvent naphtha (petroleum), light aliph. (64742-89-8)	350	ml/m3	700	ml/m3 (4 x 30min)	MAK (DE)
Solvent naphtha (petroleum), light arom. (64742-95-6)	50	ppm	10	mg/m3 (4 x 15min)	TLV (US)
zinc powder - zinc dust (stabilised) (7440-66-6)	1	mg/m3	0.6	mg/m3 (4 x 15min)	MAK (DE)
				Source: IUCLID (For information only)	

8.2. Exposure limit values

no information

8.3. Occupational exposure controls

-

8.4. Exposure controls

N/A.

8.5. Personal protection equipment:

Respiratory protection:

In case of insufficient ventilation wear suitable respiratory protection.

Hand protection:

Rubber (nitrile rubber) or PVC gloves.

Eye protection:

Wear tight fitting protective goggles and/or face protection (EN 166).

Skin protection:

Protective clothing (jacket, trousers).

8.6. Appropriate engineering control

Technical measures to prevent exposure

Provide good ventilation and local exhaust in the area with increased concentration.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

-	**Physical state:**	liquid
-	**Colour:**	grey
-	**Odour:**	characteristic

9.2. Important health, safety and environmental information

-	**pH**	no information
-	**Boiling point/boiling range**	no information
-	**Flashpoint**	0 — 21 °C
-	**Ignition temperature**	no information
-	**Explosion limits (vol%)**	no information
-	**Vapour pressure**	no information
-	**Relative density**	**Density**: 3
-	**Vapour density**	no information
-	**Solid contents**	88 %

9.3. OTHER INFORMATION

-	**Remarks:**	

10. STABILITY AND REACTIVITY

10.1. Stability

Product is stable under normal conditions according to handling and storage.

10.2. Conditions to avoid

Protect from heat, direct sunlight, open fire, free sparks. Avoid high temperatures.

10.3. Materials to avoid

Not known.

10.4. Hazardous decomposition products

Not known.

11. TOXICOLOGICAL INFORMATION

11.1. Toxicological information for the product (chemical)

11.1.1. Effects:

no information

11.1.2. Specific effects on human health:

- Carcinogenic effects: Product is not classified as carcinogenic.

- Mutagenic effects: no data

- Toxic for reproduction: no data

11.1.3. Acute toxicity:

no information

11.2. Toxicological information for components/constituents

11.2.1. Effects:

no information

11.2.2. Acute toxicity of ingredients/constituents

CAS	Routes of exposure		
	Oral	**Dermal**	**Inhalation**
1330-20-7	LD50/rat: 4300 - 8700 mg/kg *	LD50/rabbit: 4350 - 2000 mg/kg * LD50/rabbit: 3160 - 20000 mg/kg *	LC50/rat/4h: 6350 - 18.3 ppm * LC50/rat/4h: 47635 - 18.3 mg/l *
64-17-5	LD50/mouse: 790 - 6000 mg/kg * LD50/rat: 2000 - 2200 mg/kg *		LC50/mouse/4h: 0.08 - 39 mg/l * LC50/rat/6h: 5.9 - 39 mg/l *
64742-89-8	LD50/mouse: 5000 - 6000 mg/kg * LD50/rat: 2000 - 2200 mg/kg *	LD50/rabbit: 3000 - 20000 mg/kg * LD50/rabbit: 3160 - 20000 mg/kg *	
64742-95-6	LD50/rat: 3500 - 6000 mg/kg * LD50/rat: 5000 - 6000 mg/kg *	LD50/rabbit: 2000 - 20000 mg/kg * LD50/rabbit: 3160 - 20000 mg/kg *	LC50/rat/4h: 5.2 - 39 mg/l * LC50/rat/6h: 14.4 - 39 mg/l *
7440-66-6	LD50/human: 1.63 - 0.7 mg/kg * LD50/rat: 5000 - 6000 mg/kg *	LD50/rat: 5000 - 1050 mg/kg * LD50/rabbit: 3160 - 20000 mg/kg *	
92045-57-3	LD50/rat: 5000 - 7000 mg/kg * LD50/rat: 5000 - 6000 mg/kg *	LD50/rabbit: 3160 - 3160 mg/kg * LD50/rabbit: 3160 - 20000 mg/kg *	LC50/rat/6h: 12 - 11.1 mg/l * LC50/rat/6h: 14.4 - 39 mg/l *

* Source: IUCLID (For information only)

12. ECOLOGICAL INFORMATION

12.1. Ekotoxicity (product/chemical)

Product contains components that are according to regulations classified as very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.1.1. Bioaccumulative potential

- Partition coefficient:

no information

- Bioconcentration factor: -

12.1.2. Biodegradability

- Biodegradability:

-

- BOD(5days)/COD ratio: -

12.1.3. Acute toxicity

no information

12.1.4. Chronic toxicity

no information

12.1.5. Abiotic degradation

no information

12.1.6. Biodegradation

no information

12.1.7. Mobility

no information

12.1.8. Additional information

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12.2. Ekotoxicity (components/constituents)

no information

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12.3. Acute toxicity of ingredients (IUCLID)

CAS	Species		
	Fish	**Daphnia**	**Algae**
64742-95-6	LC50/96h: 9.22 - 22 mg/l * LC50/24h: 58 - 22 mg/l *	EC50/48h: 6.14 - 10000 mg/l * EC50/96h: 6.14 - 10000 mg/l *	LC50/72h: 3.29 - 10 mg/l * LC50/72h: 19 - 10 mg/l *
64-17-5	LC50/96h: 15.3 - 14.2 * LC50/24h: 1590 - 10 mg/l *	EC50/24h: 10 - 10000 * EC50/24h: 610 - 76 mg/l *	LC50/7days: 1.01 - 10 mg/l * LC50/7days: 9310 - 10 mg/l *
1330-20-7	LC50/48h: 86 - 308 mg/l * LC50/96h: 13500 - 17300 micrograms/l *	EC50/96h: 500 - 18000 micrograms/l * EC50/24h: 500 - 18000 micrograms/l *	LC50/72h: 100 - 3.92 micrograms/l * LC50/72h: 4700 - 10 mg/l *
7440-66-6	LC50/96h: 100 - 0.18 mg/l * LC50/96h: 13500 - 17300 micrograms/l *	EC50/48h: 100 - 390 mg/l * EC50/24h: 610 - 76 mg/l *	LC50/72h: 0.18 - 1000 mg/l * EC50/24h: 500 - 18000 micrograms/l *
92045-57-3		EC50/96h: 10000 - 180 mg/l * EC50/24h: 500 - 18000 micrograms/l *	
64742-89-8			LC50/72h: 6.5 - 10 mg/l * LC50/72h: 4700 - 10 mg/l *
			Source: IUCLID (For information only)

13. DISPOSAL CONSIDERATIONS

13.1. Waste chemical:

Do not allow product to reach drans/sewage systems. Disposal must be made according to official regulations: to leave it to authorized collector/remover/transformer of hazardous waste.

13.2. European Waste Catalogue number:

no information

13.3. Packaging:

Completely emptied container dispose according to regulations.

13.4. European Waste Catalogue number:

no information

13.5. Remarks

no information

14. TRANSPORT INFORMATION

Name and description

PAINT
Additional labeling: Dangerous for the environment

14.1. Transport of Dangerous Goods by Road/Rail(ADR/RID):

UN number: 1263

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Class: 3
Packing group: II
Limited quantities: 5 L
Tunnel restriction code: D/E

14.2. Transport of Dangerous Goods by River (ADN):

UN number: 1263
Class: 3
Packing group: II

14.3. Transport of Dangerous Goods by Sea (IMDG):

UN number: 1263
Class: 3
Packing group: II
Marine pollutant: YES

14.4. Transport of Dangerous Goods by Air (ICAO/IATA):

UN number: 1263
Class: 3
Packing group: II

15. REGULATORY INFORMATION

15.1. Information on laws

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

- Dangerous preparations directive (99/45/EC) as amended

- Dangerous substances directive (67/548/EEC) as amended

15.2. Chemical safety assessment

Chemical safety assessment is not available.

15.3. Special instructions:

no information

15.4. VOC value according to Directive 2004/42/EC

EU tolerance levels and category: A(i) 500 g/l. VOC Content: 420 g/l

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16. OTHER INFORMATION

16.1. List of relevant R phrases

(R10) Flammable.
(R11) Highly flammable.
(R20) Harmful by inhalation.
(R20/21) Harmful by inhalation and in contact with skin.
(R36/37) Irritating to eyes and respiratory system.
(R36/38) Irritating to eyes and skin.
(R37) Irritating to respiratory system.
(R38) Irritating to skin.
(R50/53) Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
(R51/53) Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
(R65) Harmful: may cause lung damage if swallowed.
(R67) Vapours may cause drowsiness and dizziness.

16.2. List of relevant H phrases

(H224) Extremely flammable liquid and vapour.
(H225) Highly flammable liquid and vapour.
(H226) Flammable liquid and vapour.
(H304) May be fatal if swallowed and enters airways.
(H312) Harmful in contact with skin.
(H315) Causes skin irritation.
(H319) Causes serious eye irritation.
(H332) Harmful if inhaled.
(H335) May cause respiratory irritation.
(H336) May cause drowsiness or dizziness.
(H400) Very toxic to aquatic life.
(H410) Very toxic to aquatic life with long lasting effects.
(H411) Toxic to aquatic life with long lasting effects.

16.3. Sources of key data used to compile the data sheet:

16.4. Modifications of the safety data sheet:

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.