



SAFETY DATA SHEET

COPPER STRIKE SALTS PART B

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

PRODUCT NAME COPPER STRIKE SALTS PART B
CAS-NO. 544-92-3
PRODUCT NO. 569003, 569005, TP1303
SUPPLIER PMD (UK) Limited
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2 HAZARDS IDENTIFICATION

CLASSIFICATION (1999/45) T+;R26/27/28. N;R50/53. R32.

CLASSIFICATION (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	EUH032;Acute Tox. 2 - H300;Acute Tox. 1 - H310;Acute Tox. 1 - H330
Environment	Aquatic Acute 1 - H400;Aquatic Chronic 1 - H410

LABEL IN ACCORDANCE WITH (EC) NO. 1272/2008



SIGNAL WORD Danger
CONTAINS COPPER CYANIDE
HAZARD STATEMENTS

H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

P262	Do not get in eyes, on skin, or on clothing.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+350	IF ON SKIN: Gently wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor/physician.
P501d	Dispose of contents/container in accordance with local, regional and national regulations

SUPPLEMENTARY PRECAUTIONARY STATEMENTS

P270	Do not eat, drink or smoke when using this product.
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COPPER STRIKE SALTS PART B

P264
P403+233

Wash contaminated skin thoroughly after handling.
Store in a well-ventilated place. Keep container tightly closed.

Supplemental Label Information (EU)

EUH032

Contact with acids liberates very toxic gas.

3 COMPOSITION/INFORMATION ON INGREDIENTS

COPPER CYANIDE	60-100%
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CAS-No.: 544-92-3	EC No.: 208-883-6
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Classification (EC 1272/2008)
Not classified.

Classification (67/548/EEC)
T+;R26/27/28.
N;R50/53.
R32.

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16

CAS-NO. 544-92-3

4 FIRST-AID MEASURES

GENERAL INFORMATION

CAUTION! First aid personnel must be aware of own risk during rescue! Remove affected person from source of contamination. Get medical attention.

INHALATION

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

INGESTION

Get medical attention immediately! DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Drink plenty of water. Provide rest, warmth and fresh air.

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Keep run-off water out of sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.

UNUSUAL FIRE & EXPLOSION HAZARDS

Fire causes formation of toxic gases.

SPECIFIC HAZARDS

Hydrogen cyanide (HCN).

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

DO NOT touch spilled material. Wear necessary protective equipment. Shovel into dry containers. Cover and move the containers. Flush the area with water. Inform Authorities if large amounts are involved.

7 HANDLING AND STORAGE

COPPER STRIKE SALTS PART B

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Avoid handling which leads to dust formation. Do not use in confined spaces without adequate ventilation and/or respirator.

STORAGE PRECAUTIONS

Store away from: Acids. Store in tightly closed original container in a dry, cool and well-ventilated place. Store in closed original container at temperatures between 5°C and 30°C.

STORAGE CLASS

Toxic storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs	STEL - 15 Min	Notes
COPPER CYANIDE	WEL	5 mg/m ³ (Sk)		

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Use engineering controls to reduce air contamination to permissible exposure level.

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

Dust mask/respirator.

HAND PROTECTION

Use protective gloves.

EYE PROTECTION

Wear dust resistant safety goggles where there is danger of eye contact.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Powder, dust
COLOUR	Green.
SOLUBILITY	Insoluble in water

10 STABILITY AND REACTIVITY

CONDITIONS TO AVOID

Avoid contact with acids. Generates very toxic gas in contact with acid.

HAZARDOUS DECOMPOSITION PRODUCTS

Toxic gases/vapours/fumes of: Hydrogen cyanide (HCN).

11 TOXICOLOGICAL INFORMATION

INHALATION

Very toxic by inhalation. Unconsciousness, possibly death.

INGESTION

Very toxic if swallowed. Unconsciousness, possibly death.

SKIN CONTACT

Toxic through skin absorption (percutaneous).

COPPER STRIKE SALTS PART B

EYE CONTACT

Extreme irritation of eyes and mucous membranes, including burning and tearing.

HEALTH WARNINGS

Gas or vapour is toxic or extremely irritating even on brief exposure. Gas or vapour displaces oxygen available for breathing (asphyxiant). This chemical can be hazardous when inhaled and/or touched. Toxic through skin absorption (percutaneous). Repeated exposure may cause chronic eye irritation. Exposure may cause: Unconsciousness, death.

ROUTE OF ENTRY

Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

MEDICAL SYMPTOMS

Cyanosis (blue tissue condition, nails, lips, and/or skin).

	COPPER CYANIDE (CAS: 544-92-3)
TOXIC DOSE 1 - LD 50	1265 mg/kg (oral rat)
Inhalation	Very toxic by inhalation. Unconsciousness, possibly death.
Ingestion	Very toxic if swallowed. Unconsciousness, possibly death.
Skin contact	Toxic through skin absorption (percutaneous).
Eye contact	Extreme irritation of eyes and mucous membranes, including burning and tearing.
HEALTH WARNINGS	Gas or vapour is toxic or extremely irritating even on brief exposure. Gas or vapour
Route of entry	Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.
Medical Symptoms	Cyanosis (blue tissue condition, nails, lips, and/or skin).

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

COPPER CYANIDE (CAS: 544-92-3)

ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

LC 50, 96 Hrs, Fish mg/l 0.042

EC 50, 48 Hrs, Daphnia, mg/l 0.041

MOBILITY

The product is insoluble in water.

DEGRADABILITY

The product is biodegradable.

ACUTE FISH TOXICITY

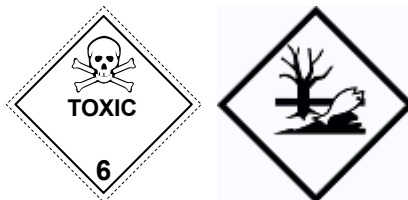
Very toxic to aquatic organisms.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

React with sodium hypochlorite to destroy. Check that all cyanide has been destroyed with starch iodide paper. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION



PROPER SHIPPING NAME	COPPER CYANIDE
UN NO. ROAD	1587
ADR CLASS NO.	6.1
ADR CLASS	Class 6.1: Toxic substances.
ADR PACK GROUP	II
TUNNEL RESTRICTION CODE	(D/E)
HAZARD No. (ADR)	60
ADR LABEL NO.	6.1
HAZCHEM CODE	2X

COPPER STRIKE SALTS PART B

UN NO. SEA	1587
IMDG CLASS	6.1
IMDG PACK GR.	II
EMS	F-A, S-A
UN NO. AIR	1587
AIR CLASS	6.1
AIR PACK GR.	II

15 REGULATORY INFORMATION

UK REGULATORY REFERENCES

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

STATUTORY INSTRUMENTS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

NATIONAL REGULATIONS

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

16 OTHER INFORMATION

INFORMATION SOURCES

Dangerous Properties of Industrial Chemicals, N.Sax, Croner's: Dangerous Substances. Croner's: Emergency Spillage Guide. Croner's: Substances Hazardous to Health. Material Safety Data Sheet, Misc. manufacturers.

REVISION DATE 10/01/2012

REV. NO./REPL. SDS 5

GENERATED

RISK PHRASES IN FULL

R32	Contact with acids liberates very toxic gas.
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DISCLAIMER

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.