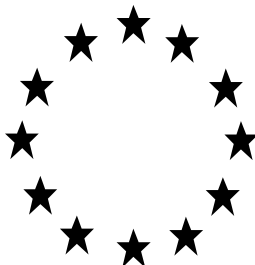


Competent Authority Report



COPPER PYRITHIONE (PT 21)

DOCUMENT III A8

Measures necessary to protect humans,
animals and the environment

API Corporation

Rapporteur Member State: Sweden

Draft December 2010

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| Section A8 Annex Point IIA8.1 – 8.7 | Measures necessary to protect Man, Animals and the Environment | Official use only |
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| 8.1 Recommended methods and precautions concerning handling, use, storage, transport or fire | <p>Handling: Do not breathe dust. Use only in well-ventilated areas.</p> <p>Storage: Store in original package. Store in a dark, cool place away from direct sunlight. Keep away from sources of ignition.</p> <p>Hygiene measures: When using do not eat, drink or smoke. Follow good house keeping practices.</p> <p>Personal protective equipment:</p> <p style="padding-left: 20px;">Respiratory system: Wear suitable respiratory equipment.</p> <p style="padding-left: 20px;">Skin and body: Wear suitable protective clothing.</p> <p style="padding-left: 20px;">Hands: Wear suitable gloves.</p> <p style="padding-left: 20px;">Eyes and face: Wear eye/face protection.</p> <p>Transport information:</p> <p style="padding-left: 20px;">UN Number : 2811(Packaging group II)</p> <p style="padding-left: 20px;">Class: 6.1 (Poisonous solids)</p> <p>Stable under normal handling and storage conditions.</p> <p style="padding-left: 20px;">Conditions to avoid: Heat, fire, open-flame, lights or sparks. Keep containers off wet floors.</p> <p style="padding-left: 20px;">Materials to avoid: Avoid contact with water, moisture, solutions, oxidizers and reducing agents.</p> <p>Fire fighting measures</p> <p style="padding-left: 20px;">Extinguishing media: Dry chemicals, foam, carbon dioxide, water spray (fog).</p> <p style="padding-left: 20px;">Special protective equipment for fire fighters :</p> <p style="padding-left: 40px;">Self contained breathing apparatus. CEN:EN137)</p> <p style="padding-left: 40px;">Protective clothing(CEN:EN469)</p> <p style="padding-left: 40px;">Protective gloves (CEN:EN659)</p> <p style="padding-left: 40px;">Helmet (CEN:EN443)</p> | |
| 8.2 In case of fire, nature of reaction products, combustion gases, etc. | <p>Hazardous decomposition product: May decompose when suddenly heated at temperatures above 200°C. Based on in house combustion and explosivity tests, in the air, gases to be generated would be carbon monoxide, carbon dioxide, oxides of nitrogen, oxides of sulphur, cupric oxide. In the absence of air, according to TG CuPT weight is start to decrease at about 250 degC and becomes about half at around 400 degC (about half is gassed away).</p> <p>Hazardous Polymerization: No known hazardous polymerization occurs.</p> | |
| 8.3 Emergency measures in case of an accident | <p><u>First Aid measures</u></p> <p>Skin contact: Remove contaminated clothing. Wash immediately with plenty of water. Seek medical attention if necessary.</p> <p>Eye contact: Rinse immediately with plenty of running water and seek medical advice.</p> <p>Inhalation: Rinse nose and mouth with water. Remove patient to fresh air, allow to rest and keep warm.</p> | |

Section A8
Annex Point IIA8.1 – 8.7

Measures necessary to protect Man, Animals and the Environment

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Ingestion: In case of loss of consciousness, give artificial respiration.
Seek medical attention.
First rinse mouth with water.
If victim is unconscious, do not induce vomiting or give fluids.
Immediately give 1-2 glasses of water if victim is fully conscious.
Seek medical attention.

Accidental release measures

Personal precaution: Self-contained breathing apparatus with full face shield.

Environmental precautions: Prevent from entering sewers or the immediate environment. Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.

Method for cleaning up: Immediately mop up, transfer to suitable containers and dispose of according to local regulations for disposal.

8.4 Possibility of destruction or decontamination following release in or on the following: (a) air, (b) water, including drinking water (c) soil

Air release: Dust may be suppressed by the use of water fog. Contain all solids for treatment or neutralization.

Water release: This material is heavier than and hardly soluble in water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. If unable to divert, create a filtration dam to remove material.

Soil release: Remove or clean up material in powder form if possible. Avoid runoff into storm sewers and ditches which lead to waterways. As a final measure add water to solidify material after installing a proper dike to contain the mixture. Remove in a liquid form, containerize and label properly. Do not treat with other materials unless excessive dusting occurs and then add sand of a commercial absorbent and containerize.

8.5 Procedures for waste management of the active substance for industry or professional users

Method of disposal: Incineration, including peeled-off paint film.

Waste of residues: Do not discharge effluent containing this product into the immediate environment.
Do not discharge effluent to sewage systems.
All recovered product should be packaged, labeled, transported, and disposed of or reclaimed in conformity with applicable laws and regulations.

Contaminated packaging: For disposing container, completely empty the container. Rinse empty container with water and dispose of container in a sanitary landfill.

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| | Preliminary treatment of the waste is not necessary. | |
| 8.5.1 Possibility of re-use or recycling | After being used as an ingredient (biocide) in anti-fouling paints, it's impossible to re-cycle because of difficulty of selecting materials from such paint systems. If material in spills is recovered in good crystalline powder condition, it may be used. | |
| 8.5.2 Possibility of neutralisation of effects | Due to the physico-chemical properties of the compound (no ionisation, no pKa), neutralisation procedures are not applicable. | |
| 8.5.3 Conditions for controlled discharge including leachate qualities on disposal | See 8.5. A discharge to surface water is not allowed. No preliminary treatment for landfill is necessary. | |
| 8.5.4 Conditions for controlled incineration | No special procedures are required but it's recomendable to pack 4-6 kgs of copper pyrithione powder into kraft paper bag to avoid dusting and put them into incinerator. Combustion danger is low. | |
| 8.6 Observations on undesirable or unintended side-effects, for example, on beneficial and other non-target organisms | Based on the use of the compound as antifouling for ship hulls no undesirable or unintended side effects on e.g. beneficial and other marine non-target organisms are observed. Furthermore based on the physico-chemical properties (e.g. vapour pressure) adverse effects on the air compartment, for example, which may contribute to the depletion of ozone layer, tropospheric ozone building, acidification, warming the atmosphere or degrading air quality are not expected (see Section 7.3.1 and Document IIC - environmental risk assessment). | |
| 8.7 Identification of any substances falling within the scope of List I or List II of the Annex to Directive 80/68/EEC on the protection of ground water against pollution caused by certain dangerous substances | Copper is listed in List II, which contains individual substances and the categories of substances belonging to the families and groups of substances listed below which could have a harmful effect on groundwater. However, based on the use of the compound as antifouling for ship hulls the environmental risk assessment shows that no pollution of the ground water occurs (see Document IIC). | |

Evaluation by Competent Authorities

EVALUATION BY RAPPORTEUR MEMBER STATE

Date 23 April 2009

Materials and methods No comments

Conclusion Acceptable

Reliability

Acceptability

Remarks