

Printing date 10/23/2003

Reviewed on 10/23/2003

1 Identification of substance

Product details

Trade name: Tip Tinner

Application of the substance / the preparation: Tip tinner

Manufacturer/Supplier:

PACE, Inc 301-490-9860
9030 Junction Drive
Annapolis Junction, MD 20701

PACE Europe Limited 011 44 1908 277666
13 Tanners Drive Blakelands
Milton Keynes MK145BU

2 Composition/Data on components

Chemical characterization

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

7440-31-5	tin	50-100%
7722-76-1	ammonium dihydrogenorthophosphate	25-50%
7440-50-8	copper	≤ 2.5%

3 Hazards identification

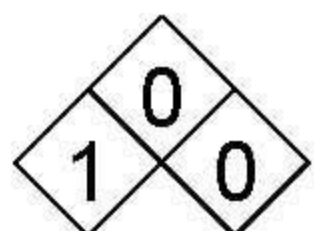
WHMIS Hazard Symbols



Information pertaining to particular dangers for man and environment: *Not applicable.*

Classification system:

NFPA ratings (scale 0 - 4)



Health = 1
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH	1	Health = 1
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 10/23/2003

Reviewed on 10/23/2003

Trade name: Tip Tinner

(Contd. of page 1)

4 First aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Induce vomiting and call for medical help.

5 Fire fighting measures

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Nitrogen oxides (NO_x)

Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

Person-related safety precautions: Not required.

Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting:

Pick up mechanically.

Dispose of the collected material according to regulations.

7 Handling and storage

Handling:

Information for safe handling: No special precautions are necessary if used correctly.

Information about protection against explosions and fires: No special measures required.

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

Additional information about design of technical systems: No further data; see item 7.

Components with limit values that require monitoring at the workplace:

7440-31-5 tin

PEL 2 mg/m³

Metal

REL 2 mg/m³

Tin, Metal

TLV 2 mg/m³

(Contd. on page 3)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 10/23/2003

Reviewed on 10/23/2003

Trade name: Tip Tinner

(Contd. of page 2)

7440-50-8 copper

PEL	0.1*;1** mg/m ³ *fume **dusts & mists
REL	0.1*;1** mg/m ³ *Copper fume, as Cu **Copper dusts & mists, as Cu
TLV	0.2*, 1** mg/m ³ *fume; ** dusts&mists, as Cu

Additional information:

PEL = Permissible Exposure Limit (OSHA)

REL= Recommended Exposure Limit (NIOSH)

TLV= Threshold Limit Value (ACGIH)

OSHA= Occupational Safety and Health Administration

ACGIH= American Conference of Governmental Industrial Hygienists

NIOSH= National Institute for Occupational Safety and Health

Personal protective equipment:**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Breathing equipment:

When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirator or self-contained breathing apparatus should be worn.

Protection of hands:

Protective gloves

Material of gloves:

Nitrile rubber, NBR

Natural rubber, NR

Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

Safety glasses

9 Physical and chemical properties**General Information**

Form:	Solid
Color:	Silver grey
Odor:	Mild

(Contd. on page 4)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 10/23/2003

Reviewed on 10/23/2003

Trade name: Tip Tinner

(Contd. of page 3)

Change in condition**Melting point/Melting range:** 160°C (320°F)**Boiling point/Boiling range:** Undetermined.**Flash point:** Not applicable.**Danger of explosion:** Product does not present an explosion hazard.**Density at 20°C (68°F):** > 1 g/cm³**Solubility in / Miscibility with
Water:** Partly miscible.**pH-value at 20°C (68°F):** 6.0**10 Stability and reactivity****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**Materials to be avoided:** Strong acids, strong oxidizers.**Dangerous reactions** No dangerous reactions known.**Dangerous products of decomposition:**

Carbon monoxide and carbon dioxide

Nitrogen oxides

Ammonia

11 Toxicological information**Acute toxicity:****Primary irritant effect:**

on the skin: No irritant effect.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.**12 Ecological information****General notes:** Do not allow product to reach ground water, water course or sewage system.**13 Disposal considerations****Product:****Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

(Contd. on page 5)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 10/23/2003

Reviewed on 10/23/2003

Trade name: Tip Tinner

(Contd. of page 4)

Uncleaned packagings:**Recommendation:** *Disposal must be made according to official regulations.***14 Transport information****DOT regulations:**

Hazard class: -
Not regulated.

Land transport ADR/RID (cross-border):

ADR/RID class: -
Not regulated.

Maritime transport IMDG:

IMDG Class: -
Not regulated.

Marine pollutant: No**Air transport ICAO-TI and IATA-DGR:**

ICAO/IATA Class: -
Not regulated.

15 Regulations

USA The following information relates to product regulation specific to the USA.

SARA (Superfund Amendments and Reauthorization Act)

Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

7440-50-8 | copper

TSCA (Toxic Substances Control Act):

All ingredients are listed.

California Proposition 65

Chemicals known to cause cancer:

WARNING: This product may contain a chemical in trace amounts known to the State of California to cause cancer.

7439-92-1 | lead

7440-43-9 | cadmium

7440-02-0 | nickel

Chemicals known to cause reproductive toxicity:

WARNING: This product may contain a chemical in trace amounts known to the State of California to cause birth defects or other reproductive harm.

7439-92-1 | lead

7440-43-9 | cadmium

(Contd. on page 6)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 10/23/2003

Reviewed on 10/23/2003

Trade name: Tip Tinner

(Contd. of page 5)

Carcinogenicity categories

EPA (Environmental Protection Agency)		
7440-50-8	copper	D
IARC (International Agency for Research on Cancer)		
None of the ingredients is listed.		
NTP (National Toxicology Program)		
None of the ingredients is listed.		
TLV (Threshold Limit Value established by ACGIH)		
None of the ingredients is listed.		
NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

CANADA: The following information relates to product regulation specific to Canada.

Workplace Hazardous Materials Identification (WHMIS):

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS Classification: D2B

Components on Ingredient List for WHMIS:

copper
tin

16 Other information

The information contained herein is based on data considered accurate and is offered solely for information, consideration and investigation. Kester extends no warranties, makes no representations and assumes no responsibility as to the accuracy, completeness or suitability of this data for any purchaser's use. The data on this Material Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved and the necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Material Safety Data Sheet as a source for hazard information.