

**Material Safety Data Sheet**

acc. to ISO/DIS 11014

Printing date 02/11/2007

Reviewed on 02/11/2007

**1 Identification of substance****Product details****Trade name: 5738-S1***Application of the substance / the preparation: Solder Topping Oil***Manufacturer/Supplier:**Kester  
800 W. Thorndale Ave.  
Itasca, IL 60143Tel.(847) 297-1600  
Fax.(847) 390-9338**Information department:**

MSDS Coordinator

Tel. (847) 699-5755

**Emergency information:**

CHEMTREC 24-Hour Emergency Telephone Number:

(800)424-9300

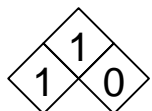
CHEMTREC 24-Hour Emergency Telephone Number (Outside of the U.S. and Canada):

(703)527-3887

**2 Composition/Data on components****Chemical characterization***Description: Mixture of the substances listed below with nonhazardous additions.***Dangerous components:**

64742-62-7 Residual oils (petroleum), solvent-dewaxed

50-100%

**3 Hazards identification****WHMIS Hazard Symbols****Information pertaining to particular dangers for man and environment:***The product has to be labelled due to the calculation procedure of international guidelines.**Irritating to eyes, respiratory system and skin.***NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 1

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

HEALTH	1
FIRE	1
REACTIVITY	0

Health = 1

Fire = 1

Reactivity = 0

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**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. If symptoms persist, consult a doctor.***After swallowing:** *Seek immediate medical advice.***5 Fire fighting measures****Suitable extinguishing agents:***CO<sub>2</sub>, 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 (CO<sub>2</sub>)***Protective equipment:** *No special measures required.***6 Accidental release measures****Person-related safety precautions:** *Not required.***Measures for environmental protection:***Do not allow product to reach sewage system or any water course.**Inform respective authorities in case of seepage into water course or sewage system.**Do not allow to enter sewers/ surface or ground water.***Measures for cleaning/collecting:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Ensure adequate ventilation.***7 Handling and storage****Handling:****Information for safe handling:** *Open and handle receptacle with care.***Information about protection against explosions and fires:** *Keep respiratory protective device available.***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:** *Keep receptacle tightly sealed.***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:***The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*

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**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.**Avoid contact with the eyes and skin.***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 through 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:** *Liquid***Color:** *Brown***Odor:** *Mild***Change in condition****Melting point/Melting range:** *Undetermined.***Boiling point/Boiling range:** *Undetermined.***Flash point:** *>200°C (>392°F)*

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**Auto igniting:** *Product is not selfigniting.*

**Danger of explosion:** *Product does not present an explosion hazard.*

**Density at 20°C (68°F):** *.895 g/cm<sup>3</sup>*

**Solubility in / Miscibility with Water:** *Not miscible or difficult to mix.*

**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*

**11 Toxicological information**

**Acute toxicity:**

**Primary irritant effect:**  
*on the skin: Irritant to skin and mucous membranes.*  
*on the eye: Irritating effect.*

**Sensitization:** *No sensitizing effects known.*

**Additional toxicological information:**  
*The product shows the following dangers according to internally approved calculation methods for preparations: Irritant*

**12 Ecological information**

**General notes:**  
*Do not allow product to reach ground water, water course or sewage system, even in small quantities.*

**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.*

**Uncleaned packagings:**  
**Recommendation:** *Disposal must be made according to official regulations.*

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**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):

None of the ingredients is listed.

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**California Proposition 65**

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity:

None of the ingredients is listed.

**Carcinogenicity categories**

EPA (Environmental Protection Agency)

None of the ingredients is listed.

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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OSHA-Ca (Occupational Safety &amp; 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.***EUROPEAN UNION***The following information relates to product regulation specific to the directives of the European Union.***Risk phrases:***Irritating to eyes, respiratory system and skin.***Safety phrases:***Keep locked up and out of the reach of children.**Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.**In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).**Avoid exposure - obtain special instructions before use.***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.***Department issuing MSDS:** *Product Safety*

USA