1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0176
PRODUCT NAME FILBERTONE
SUPPLIER Shanghai M & U International Trade Co., Ltd.
Rm 1717, No 598 North NuJiang Road
200333 Shanghai, China
+86-21-32515501 32515502
sales@mu-intel.com

FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

FLAMMABLE

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

SYNONYM 5-METHYL-2-HEPTEN-4-ONE
FORMULA C8 H14 O
CAS NO EC NO
81925-81-7 N/A

4. FIRST-AID GUIDE:

AFTER INHALATION PROVIDE FRESH AIR
AFTER SKIN CONTACT TAKE OFF CONTAMINATED CLOTHING, WASH
WITH PLENTY OF WATER
AFTER EYE CONTACT RINSE THOROUGHLY WITH PLENTY OF WATER
AND SEEK MEDICAL HELP
AFTER SWALLOWING IMMEDIATELY DRINK PLENTY OF WATER, INDUCE VOMITING
IF SYMPTOMS GET WORSE CONSULT A PHYSICIAN

5. FIRE-FIGHTING GUIDE:

SUITABLE EXTINGUISING MEDIA
CARBON DIOXIDE (CO2), FOAM, POWDER, WATER SPRAY
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTING
DO NOT STAY IN DANGER ZONE WITH OUT SELF-CONTAINED BREATHING APPARATUS
OTHER INFORMATION
COOL CONTAINER WITH WATER SPRAY FROM A SAFE DISTANCE
CONTAIN ESCAPING VAPORS WITH WATER
PREVENT FIRE-FIGHTING WATER FROM ENTERING SURFACE OR GROUND WATER
KEEP AWAY FROM SOURCES OF IGNITION

SPECIAL RISKS
FLAMMABLE
VAPORS HEAVIER THAN AIR
DEVELOPMENT OF HAZARDOUS COMBUSTION GASES OR VAPORS IN THE VENT OF FIRE

6. ACCIDENTAL RELEASE GUIDE:

PERSON-RELATER PRECAUTIONARY MEASURES
DO NOT INHALE VAPORS/AEROSOLS
ENSURE SUPPLY OF FRESH AIR IN ENCLOSED ROOMS
ENVIRONMENTAL-PROTECTION MEASURES
DO NOT ALLOW TO ENTER SEWAGE SYSTEM
PROCEDURES FOR CLEANING / ABSORPTION
TAKE UP WITH LIQUID-ABSORBENT MATERIAL
FORWARD FOR DISPOSAL
CLEAN AFFECTED AREA

7. HANDLING AND STORAGE:

HANDLING
TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES
KEEP AWAY FROM SOURCES OF IGNITION
WHEN USING DO NOT EAT OR DRINK
STORAGE
TIGHTLY CLOSED, IN A WELL-VENTILATED PLACE
KEEP AWAY FROM SOURCE OF IGNITION – NO SMOKING

8. EXPOSURE AND PERSONAL PROTECTION:

EXPOSURE LIMITS
AVOID CONTACT WITH EYES, SKIN, CLOTHING, AND BREATHING VAPOR
PRESONAL PROTECTIVE EQUIPMENT
PROTECTIVE CLOTHING SHOULD BE SELECTED SPECIFICALLY FOR THE WORKING PLACE, DEPENDING ON CONCENTRATION AND QUANTITY OF THE HAZARDS SUBSTANCES HANDLED
THE RESISTANCE OF THE PROTECTIVE CLOTHING TO CHEMICALS SHOULD BE ASCERTAINED WITH THE RESPECTIVE SUPPLIER
RESPIRATORY REQUIRED WHEN VAPORS / AEROSOLS ARE GENERATED
EYE WEAR EYE / FACE PROTECTION
HAND WEAR SUITABLE GLOVES
INDUSTRIAL HYGIENE CHANGE CONTAMINATES CLOTHING
APPLICATION OF SKIN-PROTECTIVE BARRIER
CREAM RECOMMENDED
WASH HANDS AFTER WORKING WITH
SUBSTANCES

9. PHYSICAL AND CHEMICAL PROPERTIES:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORM</td>
<td>LIQUID</td>
</tr>
<tr>
<td>COLOR</td>
<td>COLORLESS TO PALE YELLOW</td>
</tr>
<tr>
<td>ODOR</td>
<td>HAZELNUT</td>
</tr>
<tr>
<td>BOILING POINT</td>
<td>62°C/ 10 mm Hg</td>
</tr>
<tr>
<td>FLASH POINT</td>
<td>55°C</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>NO DATA AVAILABLE</td>
</tr>
<tr>
<td>OXIDIZING PROPERTIES</td>
<td>NOT OXIDIZING; FLAMMABLE</td>
</tr>
<tr>
<td>DENSITY/SPECIFIC GRAVITY @20°C</td>
<td>0.840-0.870</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>INSOLUBLE</td>
</tr>
<tr>
<td>IN ORGANIC SOLVENTS</td>
<td>SOLUBLE</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY:

CONDITIONS TO BE AVOIDED
HEATING
SUBSTANCES TO BE AVOIDED
STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE
FURTHER INFORMATION
NO DATA AVAILABLE

11. TOXICOLOGICAL INFORMATION:

LD50 ORAL, RAT NO DATA AVAILABLE
LD50 DERMAL, RABBIT NO DATA AVAILABLE
LD50 INHALATION, RAT NO DATA AVAILABLE
FURTHER TOXICOLOGICAL INFO HARMFUL IF INHALED, SWALLOWED,
OR IF ABSORBED THROUGH THE SKIN

12. ECOLOGICAL INFORMATION:

BIOLOGIC DEGRADATION NO DATA AVAILABLE
ECOTOXIC EFFECTS
BIOLOGICAL EFFECTS NO DATA AVAILABLE
FISH TOXICITY NO DATA AVAILABLE
BACTERIAL TOXICITY NO DATA AVAILABLE
DAPHNIA TOXICITY NO DATA AVAILABLE
ALGEEAL TOXICITY NO DATA AVAILABLE

BEHAVIOR IN ENVIRONMENTAL COMPARTMENTS
DISTRIBUTION- LOG P(OCT) NO DATA AVAILABLE

FURTHER ECOLOGICAL DATA
DO NOT ALLOW TO ENTER WATER, DRAIN OR SOIL

13. DISPOSAL RECOMMENDATIONS:

PRODUCT
ACCORDING TO OFFICIAL LOCAL REGUALTIONS
PACKING
ACCORDING TO OFFICIAL LOCAL REGULATIONS

14. TRANSPORTATION INFORMATION:

DOT (US)
UN NUMBER: 1224 CLASS: 3 PACKING GROUP: III
PROPER SHIPPING NAME: 5-METHYL-2-HEPTEN-4-ONE
IMDG
UN NUMBER: 1224 CLASS: 3 PACKING GROUP: III
PROPER SHIPPING NAME: 5-METHYL-2-HEPTEN-4-ONE
IATA
UN NUMBER: 1224 CLASS: 3 PACKING GROUP: III
PROPER SHIPPING NAME: 5-METHYL-2-HEPTEN-4-ONE

15. REGULATORY INFORMATION:

LABELING ACCORDING TO EC DIRECTIVES
SYMBOL NO DATA AVAILABLE
R-PHRASES 10 FLAMMABLE
S-PHRASES NO DATA AVAILABLE
CAS NO 81925-81-7

16. OTHER INFORMATION:
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