



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0147
PRODUCT NAME TRANS-2-HEPTENAL
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:

HMIS HAZARD CLASSIFICATIONS

HEALTH 1
FLAMMABILITY 2
REACTIVITY 0
PROTECTION B

LABEL PRECAUTIONARY STATEMENTS

FLAMMABLE LIQUID (U.S DEFINITION)

TOXIC (U.S DEFENITION)

GHS CLASSIFICATION AND LABELLING

The following determinations per the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) have been made:

GHS SIGNAL WORD

Danger

GHS SYMBOLS

GHS02 Flame
GHS06 Skull and crossbones

GHS LABELING/HAZARD STATEMENTS

H226 Flammable liquid and vapour
H302 Harmful if swallowed
H311 Toxic in contact with skin
H317 May cause an allergic skin reaction
H412 Harmful to aquatic life with long lasting effects

GHS LABELING/PRECAUTIONARY STATEMENTS

P210 keep away from heat, sparks, open flame and hot surfaces – no smoking
P280 Wear protective gloves/protective clothing/eye protection/face protection

P302+P312 IF SWALLOWED
P302+P352 IF ON SKIN
P363
P501

call a poison center or physician if you feel unwell
wash with plenty of soap and water
wash contaminated clothing before reuse
dispose of contents/containers in accordance with
local/regional/national/international/ regulations

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

SYNONYM	e-2-Heptenal		
Formula	C7H12O		
Molecular Weight	112.17 g/mol		
CAS-No	EC-No	Index-No	Concentration
18829-55-5	242-608-0		

4. FIRST-AID GUIDE:

INHALATION EXPOSURE

Remove to fresh air. Give oxygen and call a physician

EYE CONTACT

Flush with water for 15 min. Seek medical help if necessary

SKIN CONTACT

Wash area well with water. Seek medical help if necessary

INGESTION

Administer water and call a physician or poison control center immediately. Do not induce vomiting

5. FIRE-FIGHTING GUIDE:

EXTINGUISHING MEDIA

CO₂, FOAM, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES

Use standard firefighting procedures

UNUSUAL FIRE AND EXPLOSION HAZARDS

No data available

6. ACCIDENTAL RELEASE GUIDE:

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Standard absorbents can be used. Wet used absorbent with water; store in air-tight container

WASTE DISPOSAL METHOD

Incineration or sanitary landfill in accordance with local, state, and federal regulations

7. HANDLING AND STORAGE:

HANDLING

Observe all warnings and precautions listed for the product. Use in accordance with good

manufacturing and industrial hygiene practices. Use product in a properly ventilated work area. Do not eat, drink or smoke while handling product

STORAGE

Packaging

Glass, Aluminum or Phenolic Lined Steel Store tightly sealed under inert gas in a cool, well-ventilated area

FIRE PROTECTION

Keep away from heat, sparks, and open flame

8. EXPOSURE AND PERSONAL PROTECTION:

VENTILATION

Local exhaust preferred. General ventilation required.

RESPIRATORY

Usually not required, avoid inhaling concentrated vapors.

SKIN

Avoid skin contact. Use chemical resistant gloves.

EYES

Splash-proof safety glasses or goggles

OTHER PROTECTIVE EQUIPMENT

Safety shower, eye wash

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE	colorless clear liquid
ODOR DESCRIPTION	pungent, green, fatty, vegetable like
BOILING POINT	166.00 C (EPI 4.0)
VAPOR PRESSURE	1.34 mmHg (20C, EPI 4.0)
VAPOR DENSITY (Air = 1)	> 1
SPECIFIC GRAVITY @ 25C (water = 1)	0.8400-0.8470
SOLUBILITY IN WATER	Insoluble in water; soluble in alcohol
FLASH POINT (CC)	125 F 52 C
LOGP	2.070

10. STABILITY AND REACTIVITY:

INCOMPATIBILITIES

CONDITIONS TO AVOID

Presents no special reactivity hazard

MATERIALS TO AVOID

Strong oxidizing agents

HAZARDOUS COMBUSTION PRODUCTS

CO, CO₂, smoke

11. TOXICOLOGICAL INFORMATION:

ACUTE EFFECTS

Most likely route of entry is through the skin
Full strength may be irritating to skin and eyes
Has potential for inducing sensitization reactions in human skin
Prolonged skin contact may cause allergic dermatitis
Toxic

IRFA RECOMMENDATIONS

There is an IFRA guideline regarding this product
Please visit www.ifraorg.org for the full text guideline, or contact M & U International LLC for more information

This material is NOT to be used for fragrance ingredient

IRRITATION DATA

Skin Human no irritant effects at 4%
Skin Rabbit irritant effects

TOXICITY DATA

LD50 Dermal (Rabbit) 0.86 g/kg
LD50 Oral (rat) 1.3 g/kg

THRESHOLD LIMIT VALUE (TLV)

Not established

OSHA PERMISSIBLE EXPOSURE LIMIT (PEL)

Not established

LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA

No data available

12. ECOLOGICAL INFORMATION:

GENERAL

Prevent contamination of soil, ground- and surface water

ECOTOXIC EFFECTS

Biodegradation test (OECD 302C): 100 mg/l inherently biodegradable
11% on day 2, 31% day 7, 54% day 12, 68% day 21, 71% day 28 and 73% day 36
Vehicle was mineral medium. Result for e-2-Hevenal
Tetrahymen pyriformis strain GL-C The log 1/IGC50-1.05 (or approx. 11 mg/l)

13. DISPOSAL RECOMMENDATIONS:

WASTE DISPOSAL METHOD

Incineration or sanitary landfill in accordance with local, state, and federal regulations

14. TRANSPORTATION INFORMATION:

DOT (US)

UN number: 1988 Class: 3 Packing group: III
Proper shipping name: trans-2-HEPTEN-1-AL

IMDG

UN number: 1988 Class: 3 Packing group: III
Proper shipping name: trans-2-HEPTEN-1-AL

IATA

UN number: 1988 Class: 3 Packing group: III
Proper shipping name: trans-2-HEPTEN-1-AL

OTHER INFORMATION

Transport label (s)

FLAMMABLE LIQUID
TOXIC

15. REGULATORY INFORMATION:**REVIEWS, STANDARDS, AND REGULATIONS**

This chemical is listed on the following inventories

TSCA AICS CHINA DSL EINECS(242-608-0) PICCS

LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA

No data available

16. OTHER INFORMATION:

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