

# SAFETY DATA SHEET

## **1. PRODUCT AND COMPANY IDENTIFICATION:**

PRODUCT CODE

A0078

**PRODUCT NAME** 

**SUPPLIER** 

GAMMA-UNDECALACTONE(C-14)

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:

## Classification of the substance or mixture

The substance is not classified according to the Globally Harmonized System (GHS).

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Dangerous for the environment

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## **Information concerning particular hazards for human and environment:** Not applicable.

Label elements GHS label elements Not Applicable

Hazard pictograms Not Applicable

Signal word Not Applicable

Hazard statements Not Applicable

Classification system: NFPA ratings (scale 0 - 4)



 $\begin{aligned} \text{Health} &= 0\\ \text{Fire} &= 1\\ \text{Reactivity} &= 0 \end{aligned}$ 

# HMIS-ratings (scale 0 - 4)



Health = 0 Fire = 1 Reactivity = 0

Other hazards Results of PBT and vPvB assessment PBT: Not applicable.

**vPvB:** Not applicable.

# 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

**Chemical characterization: Substances CAS No. Description** 104-67-6 Gamma Undecalactone

Identification number(s) EC number: 203-225-4

## 4. FIRST-AID GUIDE:

**Description of first aid measures After inhalation:** Supply fresh air; consult doctor in case of complaints.

## After skin contact: Generally the product does not irritate the skin.

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

After swallowing: If symptoms persist consult doctor.

**Most important symptoms and effects, both acute and delayed** No further relevant information available.

## Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5. FIRE-FIGHTING GUIDE:

**Extinguishing media Suitable extinguishing agents:** CO2, powder or alcohol resistant foam. Use fire fighting measures that suit the environment.

# Special hazards arising from the substance or mixture

No further relevant information available.

# Advice for firefighters

**Protective equipment:** No special measures required.

## **Additional information**

Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system.

## 6. ACCIDENTAL RELEASE GUIDE:

#### **Personal precautions, protective equipment and emergency procedures** Not required.

#### 1

## **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

## Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

#### **Reference to other sections**

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## 7. H ANDLING AND STORAGE:

## **Precautions for safe handling**

No special precautions are necessary if used correctly.

## Information about protection against explosions and fires:

No special measures required.

## Conditions for safe storage, including any incompatibilities Storage:

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

No special requirements.

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

**Further information about storage conditions:** None.

**Specific end use(s)** No further relevant information available.

## 8. EXPOSURE AND PERSONAL PROTECTION:

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

**Control parameters** 

**Components with limit values that require monitoring at the workplace:** Not required.

## **Additional information:**

The lists that were valid during the creation were used as a basis.

#### **Exposure controls**

**Personal protective equipment: General protective and hygienic measures:** Wash hands before breaks and at the end of work.

#### **Breathing equipment:**

Not required.

#### **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

## Penetration time of glove material

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

## Eye protection:

Goggles recommended during refilling.

# 9. PHYSICAL AND CHEMICAL PROPERTIES:

Information on basic physical and chemical properties	
General Information	
Appearance:	
Form:	Liquid
Color:	Pale yellow to yellow
Odor:	Fruit-like
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	164 °C (327 °F)
Flash point:	> 110 °C (> 230 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	0.943 g/cm <sup>3</sup> (7.869 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Organic solvents:	0.0 %
Other information	No further relevant information available.

## **10. STABILITY AND REACTIVITY:**

# Reactivity Chemical stability Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

## **Possibility of hazardous reactions** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

## **11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:104-67-6 Gamma UndecalactoneOralLD5018500 mg/kg (rat)

**Primary irritant effect: On the skin:** No irritant effect.

**On the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

Additional toxicological information: Carcinogenic categories ARC (International Agency for Research on Cancer) Substance is not listed.

**NTP (National Toxicology Program)** Substance is not listed.

**OSHA-Ca (Occupational Safety & Health Administration)** Substance is not listed.

## **12. ECOLOGICAL INFORMATION:**

Toxicity

#### **Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

# Bioaccumulative potential

No further relevant information available.

## Mobility in soil

No further relevant information available.

## **Ecotoxical effects: Remark:** Toxic for fish

#### Additional ecological information: General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

# **Results of PBT and vPvB assessment PBT:** Not applicable.

## **vPvB:** Not applicable.

## Other adverse effects

No further relevant information available.

# **13. DISPOSAL RECOMMENDATIONS:**

# Waste treatment methods Recommendation:

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

## **Un cleaned packaging: Recommendation:** Disposal must be made according to official regulations.

# **14. TRANSPORTATION INFORMATION:**

UN-Number	
DOT, ADR, ADN, IMDG, IATA	Not Regulated
UN proper shipping name	
DOT, ADR, ADN, IMDG, IATA	Not Regulated
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
Class	Not Regulated
Packing group	
DOT, ADR, IMDG, IATA	Not Regulated
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
DOT	
DOT	On passenger aircraft/rail: -
Quantity limitations	On cargo aircraft only: -
ADR	
Excepted quantities (EQ)	Code: E1
Lincepton quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	-

## **15. REGULATORY INFORMATION:**

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

Section 355 (extremely hazardous substances): Substance is not listed.

Section 313 (Specific toxic chemical listings): Substance is not listed.

**TSCA** (Toxic Substances Control Act): Substance is listed.

**Proposition 65 Chemicals known to cause cancer:** Substance is not listed.

**Chemicals known to cause reproductive toxicity for females:** Substance is not listed.

Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

**Chemicals known to cause developmental toxicity:** Substance is not listed.

**Carcinogenic categories EPA (Environmental Protection Agency)** Substance is not listed.

**TLV (Threshold Limit Value established by ACGIH)** Substance is not listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.

**GHS label elements** Not Applicable

Hazard pictograms Not Applicable

Signal word Not Applicable

Hazard statements Not Applicable

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## **16. OTHER INFORMATION:**

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

**Prepared By:** M&U International LLC

**REVISED:** 01/3/2017