

# ! SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Name of product	Heptalactone gamma
	Prod-Nr 20068
Name of substance	heptan-4-olide
EC No	203-279-9
CAS No	105-21-5

**1.2. Relevant identified uses of the substance or mixture and uses advised against** No information available.

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor	A.C.S. International GmbH Im Wesertal 5, D-37671 Höxter - Stahle Phone +49 (0)5531 9906142, Fax +49 (0)5531 9906196 E-Mail regulatory@acsint.com Internet www.acsint.com	
Advice	GIZ-Nord, Göttingen, Germany	
1.4. Emergency telephone number		
Emergency advice	Phone +49 551 19240	

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Skin Irrit. 2	H315	

Hazard statements for health hazards H315 Causes skin irritation.

# 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS07

Signal word Warning

Hazard statements for health hazards H315 Causes skin irritation.



#### **Precautionary Statements**

Prevention P264

Wash hands thoroughly after handling.

# Response

P332 + P313 If skin irritation occurs: Get medical advice/attention.

**2.3. Other hazards** No information available.

# **SECTION 3: Composition/ information on ingredients**

**3.1. Substances CAS No 105-21-5** EC No 203-279-9

heptan-4-olide

**3.2. Mixtures** not applicable

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

In the event of persistent symptoms receive medical treatment.

#### In case of inhalation

Remove the casualty into fresh air and keep him immobile. Seek medical advice immediately.

#### In case of skin contact

In case of contact with skin wash off with soap and water. Remove contaminated clothing immediately, even underwear and shoes. Consult a doctor if skin irritation persists.

#### In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

#### In case of ingestion

Turn a vomiting person lying on his back onto his side. Do not induce vomiting. Seek medical advice immediately. Rinse out mouth thoroughly with water.

## 4.2. Most important symptoms and effects, both acute and delayed

No information available.

**4.3. Indication of any immediate medical attention and special treatment needed** No information available.

## **SECTION 5: Firefighting measures**

**5.1. Extinguishing media Suitable extinguishing media** Foam Dry fire-extinguishing substance Carbon dioxide



### Water spray jet

#### Unsuitable extinguishing media Full water jet

**5.2. Special hazards arising from the substance or mixture** Carbon monoxide (CO) Carbon dioxide (CO2)

**5.3. Advice for firefighters Special protective equipment for fire-fighters** Use breathing apparatus with independent air supply. Do not inhale explosion and/or combustion gases.

## Additional information

Cool endangered containers with water spray jet.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Ensure adequate ventilation. Keep away sources of ignition.

#### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

#### 6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, sawdust, general-purpose binder). After taking up the material dispose according to regulation.

#### 6.4. Reference to other sections

No information available.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Take the usual precautions when handling with chemicals.

#### **General protective measures**

Avoid contact with eyes and skin Do not inhale gases/vapours/aerosols.

#### Hygiene measures

At work do not eat, drink and smoke. Remove soaked clothing immediately. Wash hands before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking



Advice on storage compatibility

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Printed 06.08.2019 Revision 06.08.2019 (GB) Version 2.3 Heptalactone gamma 20068

Do not store together with oxidizing agents. Further information on storage conditions Keep container tightly closed. Protect from heat and direct solar radiation. Store at cool and aired place. 7.3. Specific end use(s) No information available. SECTION 8: Exposure controls/personal protection 8.1. Control parameters Additional advice not determined

7.2. Conditions for safe storage, including any incompatibilities

8.2. Exposure controlsRespiratory protectionIn case of insufficient ventilation or long-term effect use breathing apparatus.

Hand protection chemical-resistant gloves

**Eye protection** safety goggles with side protection

Other protection measures Light protective clothing.

Limitation and surveillance of the environment not determined

# **SECTION 9: Physical and chemical properties**

9.1. Information on basi Appearance liquid	ic physical and chemical properties Colour colourless		<b>Odour</b> caramel,c	<b>Odour</b> caramel,coconut,herbal		
Odour threshold not determined						
Important health, safety	Important health, safety and environmental information					
	Value	Temperature	at	Method	Remark	
pH value	not determined					
Acid number	< 1 mgKOH/g					
boiling point	100 - 106 °C		7 hPa			
melting point				not determined		



20068

	Value	Temperature	at	Method	Remark
Flash point	> 100 °C			closed cup	
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature	not determined				
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	0,99 - 1,01 g/ cm3	25 °C			
Vapour density	not determined				
Solubility in water					low soluble
Solubility/other	not determined				
Partition coefficient n- octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				
Oxidising properties No information available. Explosive properties No information available.					
<b>9.2. Other information</b> No information available.					

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No information available.

# **10.2. Chemical stability** No information available.



**10.3. Possibility of hazardous reactions** No information available.

# 10.4. Conditions to avoid

No hazardous reactions known.

# 10.5. Incompatible materials

**Substances to avoid** Reactions with strong oxidising agents. Reactions with reducing agents.

# 10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

# **Thermal decomposition**

Remark Stable at ambient temperature.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 5000 mg/kg	rat		
LD50 acute dermal	> 5000 mg/kg	rabbit		
Skin irritation	non-irritant	human		
Eye irritation	not determined	rabbit eye		
Skin sensitization	non-sensitizing	human		

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

No information available.

# 12.2. Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

No information available.

#### 12.4. Mobility in soil

No information available.

## 12.5. Results of PBT and vPvB assessment



No information available.

#### 12.6. Other adverse effects

No information available.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Recommendations for the product**

Remove in accordance with local official regulations.

#### Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken fot reuse.

Packaging that cannot be cleaned should be disposed of like the product.

#### **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-

#### 14.6. Special precautions for user

No information available.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.

# Land and inland navigation transport ADR/RID Not classified.

#### Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

#### **SECTION 15: Regulatory information**

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



National regulations		
Water hazard class	2	value from literature
Decree for case of interference/remarks	no	
15.2 Chamical Safaty Assass	nont	

15.2. Chemical Safety Assessment

No information available.

# **SECTION 16: Other information**

**Training advice** no

#### **Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

#### **Further information**

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.7 Sources of key data used

Listed in EINECS and TSCA