

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

1.1. Product identifier

Name of product	Romanone extra pure Prod-Nr 20921
Name of substance	Cyclopentadecanone
EC No	207-951-2
REACH registration number	01-2120766374-48-****
CAS No	502-72-7

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Product categories [PC]

PC20 - Products such as ph-regulators, flocculants, precipitants, neutralisation agents
PC21 - Laboratory chemicals
PC28 - Perfumes, fragrances
PC3 - Air care products
PC31 - Polishes and wax blends
PC35 - Washing and cleaning products (including solvent based products)
PC37 - Water treatment chemicals
PC39 - Cosmetics, personal care products
PC8 - Biocidal products (e.g. Disinfectants, pest control)

Process categories [PROC]

PROC1 - Use in closed process, no likelihood of exposure
PROC2 - Use in closed, continuous process with occasional controlled exposure
PROC3 - Use in closed batch process (synthesis or formulation)
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC7 - Industrial spraying
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC13 - Treatment of articles by dipping and pouring
PROC14 - production of preparations or articles by tableting, compression, extrusion, pelettisation
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC10 - Roller application or brushing
PROC11 - Non industrial spraying
PROC15 - Use as laboratory reagent

Environmental release categories [ERC]

ERC8a - Wide dispersive indoor use of processing aids in open systems
ERC8d - Wide dispersive outdoor use of processing aids in open systems
ERC2 - Formulation of preparations (mixtures)
ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles
ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor

A.C.S. International GmbH
Im Wesertal 5, D-37671 Hörter - Stahle
Phone +49 (0)5531 9906142, Fax +49 (0)5531 9906 196
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
Aquatic Acute 1	H400	
Aquatic Chronic 1	H410	

Hazard statements for environmental hazards

H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

2.2. Label elements

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



GHS09

Signal word

Warning

Hazard statements for environmental hazards

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P273 Avoid release to the environment.

Response

P391 Collect spillage.

! Disposal

P501 Dispose of contents/container to lokal regulations .

2.3. Other hazards

Results of PBT and vPvB assessment

This substance meets the vPvB criteria of REACH, annex XIII.

! SECTION 3: Composition/ information on ingredients

3.1. Substances

CAS No 502-72-7

Cyclopentadecanone

EC No 207-951-2

REACH registration number 01-2120766374-48-****

3.2. Mixtures

not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.
Seek medical advice immediately.

In case of inhalation

In case of inhalation remove the casualty into fresh air and seek medical advice.
In case of respiratory standstill give artificial respiration by respirator and send for a doctor.

In case of skin contact

In case of contact with skin wash off immediately with soap and water.
Remove contaminated clothing immediately, even underwear and shoes.
Seek medical advice immediately.

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

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

Treatment (Advice to doctor)

Symptoms may not occur until several hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam

Dry fire-extinguishing substance

Carbon dioxide

water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Under certain fire conditions traces of other toxic substances cannot be excluded.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Wear full protective clothing.

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.

Remove persons to safety.

Avoid skin contact with running out liquid (risk of frostbites!).

Avoid dust formation.

Use personal protective clothing.

Keep away sources of ignition.

For emergency responders

Ensure adequate ventilation.

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.

Additional Information

Informations for disposal see chapter 13.

6.4. Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Ventilate closed rooms at ground level.

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

7.2. Conditions for safe storage, including any incompatibilities

Advice on storage compatibility
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

8.2. Exposure controls
Respiratory protection
Environment-independent 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 basic physical and chemical properties

Appearance
powder

Colour
white

Odour
sweet, typically musky

Odour threshold
not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
boiling point	246 °C		101,3 hPa		

	Value	Temperature	at	Method	Remark
melting point	61 °C				
Flash point	> 100 °C			closed cup	
Vapourisation rate	<= 0,63 g/h				
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					not applicable
Vapour density	not determined				
Solubility in water	0,578 mg/l	20 °C			insoluble
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	5,6				
Decomposition temperature	not determined				
Viscosity	not determined				
Oxidising properties	No information available.				
Explosive properties	No information available.				
9.2. Other information	No information available.				

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Evolution of heat.

10.5. Incompatible materials

Substances to avoid

Reactions with strong oxidising agents.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

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		
LC50 acute inhalation				not determined
Skin irritation	non-irritant	human		
Eye irritation	non-irritant	rabbit eye		
Skin sensitization	non-sensitizing	human		

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Reproduction-Toxicity				No indications of toxic effects were observed in reproduction studies in animals.

Specific target organ toxicity (single exposure)

no

Specific target organ toxicity (repeated exposure)
no

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 0,17 mg/l	Brachidanio rerio		
Daphnia	EC50 0,18 mg/l	Daphnia magna		
Algae	EC10 0,17 mg/l	Chlorella vulgaris		

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Degradability	70 % (28 d)			Readily biodegradable (to OECD criteria)

12.3. Bioaccumulative potential

Because of the n-octanol/water distribution coefficient (log K_{ow}) accumulation in organisms is possible.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance meets the vPvB criteria of REACH, annex XIII.

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 for 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	3077	3077	3077

	ADR/RID	IMDG	IATA-DGR
14.2. UN proper shipping name	Environmentally hazardous substances, solid, n.o.s.	Environmentally hazardous substances, solid, n.o.s.	Environmentally hazardous substances, solid, n.o.s.
14.3. Transport hazard class(es)	9	9	9
14.4. Packing group	III	III	III
14.5. Environmental hazards	Yes	Yes	Yes

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

Hazard label(s) 9

Marine transport IMDG

MARINE POLLUTANT

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. Chemical Safety Assessment

For this substance a chemical safety assessment has been carried out.

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: 3.5

Sources of key data used
Listed in EINECS and TSCA