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SDS Version : 2

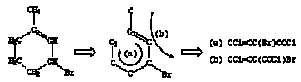
Material Safety Data Sheet : according to EC directive 2001/58/EC and the REACH regulation 1907/2006 annex II

Acertonicone

(HEMMIS EXAMPLE SINGLE PRODUCT)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 : Identification of the substance or preparation

Product identifier	:	Single substance
Reach Registration number	:	CX123453245432
Product name	:	Acertonicone
Product code	:	SAPS1200
Product type	:	Chemical solvent
IUPAC name	:	Acertonicone
Big number	:	08080808
Smiles notation	:	
Formular	:	CH3COONaOH-OH

1.2 : Use of the substance/preparation

Use of substance/preparation	:	Use as a solvent only in industrial manufacturing processes.
Ecology – use	:	Chemical solvent
Main use category	:	Industrial use – Professional use
Industrial and professional use specification	:	not isolated intermediate
Industrial category	:	Chemical industry: basic chemicals
Function and use category	:	48. Solvents

1.3 : Company/undertaking identification

Supplier	:	The Chemical Company B.V. P.O. Box 8610 King Arthur road 5 – 9 B- 2000 Antwerp
Company role	:	Producer - distributor
Company telephone number	:	+32 2 744 5441
Company fax number		+32 2 744 6000
Company Contact person		ehs@thechemicalcompany.com

1.4 : Emergency Telephone

Emergency telephone number : +32 (0)2 745 745 Antigifcentrum Belgium

2. HAZARDS IDENTIFICATION

2.1. Classification and General Hazards

This substance is classified as dangerous in according to Directive 1999/45/EC or 67/548/EEC (hazardous substances) and applicable amendments

Hazard symbol :

F : Highly flammable. Xi : Irritant.

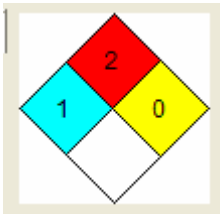
Risk hazards : Narcotic at high vapour concentrations. Irritating to eyes. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. Highly flammable. In use, may form flammable/explosive vapour-air mixture.

Fire Hazard : Highly flammable.

Explosion hazards : In use, may form flammable/explosive vapour-air

NFPA image :

NFPA Code (USA) : 1,2,0



2.2. Environmental hazards

Ecology – general : not applicable
Ecology – water : not applicable
Ecology - air : not applicable
Ecology - soil : not applicable
Ecology - waste materials not applicable

2.3. Other dangers

Other dangers : avoid fire

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information about the composition : single substance

Ingrediënt	Hazard	CAS nr	EINECS/ELINCS	EC	R Phrase	REACH Nr	Concentration
Acertonicone	F+;Xi	99-99-9	200-999-9	666-111-00-6	R11 ;R33 R66 ;R67	CX123453245432	> 99%
Pigment	N.C.	-	-	-	-	-	< 0,5 %

Substance contains non dangerous pigment

4. FIRST AID MEASURES

4.1. Symptoms and effects

Symptoms/injuries	:	headache - dizziness - nausea - narcosis – dryness
Symptoms/injuries after eye contact	:	Irritation
Symptoms/injuries after skin contact	:	Irritation
Symptoms/injuries after inhalation	:	Irritation of respiratory tract
Symptoms/injuries after ingestion	:	Irritation of lever

Symptoms/injuries upon intravenous administration : no effects known

4.2. First-aid measures

First-aid measures general	:	
First-aid measures after inhalation	:	Remove to fresh air.
First-aid measures after skin contact	:	Wash skin with water using soap if available.
First-aid measures after eye contact	:	Flush eye with water. If persistent irritation occurs, obtain medical attention.
First-aid measures after ingestion	:	Do not induce vomiting. Give water to drink, providing patient is conscious. If rapid recovery does not occur, obtain medical attention.

4.3. Medical Advice

Advice to physicians : Dermatitis may result from prolonged or repeated exposure. Causes central nervous system depression.

5. FIRE-FIGHTING MEASURES

General measures	: Indicate danger zone. Close area. Stop engines and active installations
Specific hazards during fire	: Hazardous combustion products may include carbon monoxide. The vapour is heavier than air, spreads along the ground and distant ignition is possible.
Reactivity Hazard	: Chemical reaction improve explosion and fire.
Suitable Extinguishing media	: Alcohol-resistant foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	: Water in a jet.
Protective equipment :	Full protective clothing and self-contained breathing apparatus.
Other information :	Keep adjacent containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

6.1. Protective measures :

General measures :	Avoid contact with skin, eyes. Ventilate contaminated area thoroughly. Do not breathe vapour. Extinguish naked flames. Remove ignition sources. No smoking. Avoid sparks. Evacuate the area of all non-essential personnel. Shut off leaks, if possible without personal risk.
Personal protection :	Wear neoprene or nitrile rubber gloves, PVC one-piece suit with integral hood, safety boots - rubber, knee length.

For guidance on respiratory protection see Section 8.

6.2. Environmental precautions

Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

6.3. Clean-up methods

Leak : Transfer to a labelled, sealable container for product recovery or safe disposal. Treat residues as for small spillage.

Disposal : Absorb or contain liquid with sand, earth or spill control material. Shovel up and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum. Flush contaminated area with plenty of water. Retain washings as contaminated waste.

See Section 13 for information on disposal.

6.4. Other information

Risk of explosion. Inform the emergency services if liquid enters surface water drains. Vapour may form an explosive mixture with air.

7. HANDLING AND STORAGE

7.1. Handling

Handling : Avoid prolonged or repeated contact with skin. Extinguish any naked flames. Remove ignition sources. Avoid sparks. Do not smoke. Do not empty into drains.

Handling temperatures: Ambient.

7.2. Storage

Storage : Keep away from direct sunlight and other sources of heat or ignition. Do not smoke in storage areas. Keep container tightly closed and in a well-ventilated place.

Maximum storage time : no data available

Maximum storage quantities : no data availbale

Storage temperatures: Ambient.

7.3. Special use(s) and requirements

Product transfer/packing requirements : Earth all equipment

Recommended materials: For containers or container linings, use mild steel, stainless steel. For container paints, use zinc silicate

Unsuitable materials: plastics; aluminium; natural, neoprene or nitrile rubbers

REACH : Handling and storage information is applicable on all mentionned identified uses of this SDS.
Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure information

Property	Preparation	Component		
CAS Nr	99-99-9	99-99-9		
Name	Acertonicone	Acertonicone	No other components	
Limit value (ppm)	500 ppm	500 ppm		
Limit value (mg/m3)	1210 mg/m³	1210 mg/m³		
MAC (mg/m3)	1210 mg/m³	1210 mg/m³		
Short time value EU (ppm)	1000 ppm	1000 ppm		
Short time value EU (mg/m3)	2420 mg/m³	2420 mg/m³		
TLV-STEL (15 min)	1,5 ppm	1,5 ppm		
TLV-STEL (15 min)	3,620 mg/m3	3,620 mg/m3		
TLV-TWA (8 h)	500 ppm	500 ppm		
TLV-TWA (8 h)	1,210 mg/m3	1,210 mg/m3		
MAK (ppm)	500 ppm	500 ppm		
MAK (mg/m3)	1200 mg/m³	1200 mg/m³		
VME (ppm)	750 ppm	750 ppm		
VME (mg/m3)	1800 mg/m³	1800 mg/m³		
TRK (ppm)	Not identified	Not identified		
TRK (mg/m3)	Not identified	Not identified		

8.2. Occupational Exposure control and Risk Management Measures

Covered Identified Uses : Use as a solvent only in industrial manufacturing processes - Chemical solvent - Industrial use – Professional use not isolated intermediate - basic chemicals - 48. Solvents

Carcinogenicity : no data available

Skin resorption : no data available

Protection of young employees at the workplace (ARAB.RGTP art. 183) : avoid use of this product

Protection of motherhood (ARAB.RGTP art. 147) : avoid use of this product

Medical control : occupational diseases (ARAB.RGTP art.124) : I 23.4

Personal protection handling : See detailed indication below

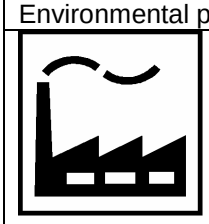
Personal protection clothing : See detailed indication below

Risk Management Measures : No further data available

Respiratory protection:	
	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select Respiratory Protective Equipment suitable for the specific conditions of use and meeting relevant legislation. Check with Respiratory Protective Equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable or organic gases and vapors [boiling point <65℃ (149℉) meeting EN3 71 Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure Breathing Apparatus.
Hand protection:	
	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: Longer term protection - butyl rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.
Eye protection:	
	monogoggles (EN166)
Body protection:	
	standard issue work clothes safety shoes or boots - chemical resistant

Property	Preparation	Component		
CAS Nr	99-99-9	99-99-9		
Name	Acertonicone	Acertonicone	No other components	
DNEL	X mg/m3	Not applicable		

8.3. Environmental Exposure control and Risk Management Measures

Environmental protection	
	Use ventilation . release in open air after filtering

Property	Preparation	Component		
CAS Nr	99-99-9	99-99-9		
Name	Acertonicone	Acertonicone	No other components	
PNEC	X,Y ppm	Not applicable		

Risk Management Measures : No further data available

8.4. Technnical Risk Management Measures and information

Engineering control measures: Use only in well-ventilated areas. Provide adequate ventilation in storage areas.

Concentration measurement in air : SHORT-TERM AUER TUBES: Aceton-100 (5086-829)
SHORT-TERM DRÄGER TUBES: Acetone 100/b (CH 22901)

Monitoring methods: Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Examples of sources of recommended air monitoring methods are given below. Further national methods may be available. National Institute of Occupational Safety and Health (NIOSH), USA: Manual of analytical Methods http://www.cdc.gov/niosh/nmam/nmammenu.html Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha-slc.gov/dts/sltc/methods/toc.html Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hsl.gov.uk/search.htm Berufsgenossenschaftliches Institut für Arbeitssicherheit (BIA), Germany http://www.hvbg.de/d/bia/pub/grl/grle.htm L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/indexnosdoss.html

REACH : Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance :	Clear liquid, potentially yellow shine
Physical state:	Liquid
Colour:	Clear
Odour:	Characteristic

9.2. Important health, safety and environmental information

Boiling point:	55.8 - 56.6 ℃ (ASTM D-1078)
Flash point:	-18 ℃ (IP 170)
Auto-ignition temperature:	540 ℃ (ASTM D-2155)
Explosion / flammability limits in air:	ca. 2.1 - 13 %(V)
Vapour pressure:	24.7 kPa @ 20 ℃
Relative evaporation rate:	5.6 (ASTM D 3539, nBuAc=1)
Density:	790 - 792 kg/m3 @ 20 ℃ (ASTM D-4052)
Solubility in water:	@ 20 ℃ Completely miscible.
n-octanol/water partition coefficient (log Pow):	0.2
Dynamic viscosity:	0.33 mPa.s @ 20 ℃ ASTM D-445
Surface tension:	22.8 mN/m @ 20 ℃
Volatile organic carbon content:	62 %
Molecular mass:	58.08 g/mol

9.3. Other information

Miscibility :	no data available
fat solubility (solvent – oil to be specified) :	no data available
Electrical conductivity:	20 µS/m @ 20 ℃ (ASTM D- 4308)
melting point/melting range :	not applicable (liquid)
Auto-ignition temperature:	540 ℃ (ASTM D-2155)

REACH : All properties are determined in accordance with the specifications laid down in the Commission Regulation on testing methods referred to in Article 13(3) or any other comparable method.

10. STABILITY/REACTIVITY

Stability:	Stable under normal use conditions. Reacts with strong oxidising agents.
Conditions to avoid:	Heat, flames and sparks.
Materials to avoid:	Strong oxidising agents.
Hazardous decomposition products:	None known.

11. TOXICOLOGICAL INFORMATION

Basis for assessment: Information given is based on product data.

11.1 Chronic toxicity

General toxicity :	See below
Eye irritation:	Irritant.
Skin irritation:	Not irritating.
Skin sensitisation :	Not expected to be a skin sensitiser.
Repeated dose toxicity:	Repeated exposure does not cause significant toxic effects.
Mutagenicity:	Not mutagenic.

11.2 Acute toxicity

Property	Preparation	Component		
CAS Nr	99-99-9	99-99-9		
Name	Acertonicone	Acertonicone	No other components	
LD50 dermaal rat	> 2000 mg/kg.	> 2000 mg/kg.		
LD50 oraal rat	> 2000 mg/kg.	> 2000 mg/kg.		
Acute toxicity - inhalation: LC50	> 5 mg/l.	> 5 mg/l.		
LC50 inhalation rat (mg/l/4h)	71 mg/l/4 u	71 mg/l/4 u		

Acute toxicity - oral: Low toxicity, LD50 > 2000 mg/kg.
Acute toxicity - dermal: Low toxicity, LD50 > 2000 mg/kg.
Acute toxicity - inhalation: Low toxicity, LC50 > 5 mg/l.

11.3 Effects and Symptoms

Symptoms/injuries : High exposures can cause drowsiness and dizziness
Symptoms/injuries after skin contact : Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis
Symptoms/injuries after inhalation : Respiratory and eye irritant
Symptoms/injuries upon intravenous administration : no data available
Symptoms/injuries after ingestion : dry throuth
Symptoms/injuries after eye contact : Respiratory and eye irritant ; Causes pain on contact with eyes

11.4 Other information

RTECS number : AL3150000
Hazchemcode : *2YE
NCI no : Not registered
IARC Group : Not applicable
EC_Category : existing in 67/548/EC

REACH : Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

12. ECOLOGICAL INFORMATION

Basis for assessment: Information given is based on product data.

12.1 : Ecotoxicity

LC50/EC50 information

Property	Preparation	Component		
CAS Nr	99-99-9	99-99-9		
Name	Acertonicone	Acertonicone	No other components	
LC50 fishes 1	6210 mg/l	6210 mg/l		
EC50 Daphnia 1	8800 mg/l	8800 mg/l		

BCF information

Property	Preparation	Component		
CAS Nr	99-99-9	99-99-9		
Name	Acertonicone	Acertonicone	No other components	
BCF fishes 2	0.69	0.69		
BCF other aquatic organisms 1	2.05	2.05		

TLM information

Property	Preparation	Component		
CAS Nr	99-99-9	99-99-9		
Name	Acertonicone	Acertonicone	No other components	
TLM fishes 1	13000 ppm	13000 ppm		
TLM other aquatic organisms 1	5500 mg/l	5500 mg/l		
THRESHOLD LIMIT algae 1	7500 mg/l	7500 mg/l		
THRESHOLD LIMIT other aquatic organisms 1	28 mg/l	28 mg/l		

12.2 : Mobility

Mobility: Dissolves in water. Lost within a day by evaporation and dissolution.
Large volumes may penetrate soil and could contaminate groundwater.

12.3 : Persistence and degradability

Persistence/degradability: Readily biodegradable.
Integrated environmental half-life expected to be 1 - < 10 days.
Dominant loss process - biodegradation. Poses a significant risk of oxygen depletion in aquatic systems.

Property	Preparation	Component		
CAS Nr	99-99-9	99-99-9		
Name	Acertonicone	Acertonicone	No other components	
BOD	1.43 g O2/g stof	1.43 g O2/g stof		
COD	1.92 g O2/g stof	1.92 g O2/g stof		
ThOD	No data	No data		
Low Pow	-0.24/0.58	-0.24/0.58		
BOD (% ThOD)	65 % ThOD	65 % ThOD		
WGK	1	1		
WGK remark	Classification in compliance with Verwaltungsvorschriftwassergefährdender Stoffe (VwVwS) of 17 May 1999	Classification in compliance with Verwaltungsvorschriftwassergefährdender Stoffe (VwVwS) of 17 May 1999		

12.4: Bio accumulative potential

Bioaccumulation: Does not bioaccumulate significantly.

12.5: Results of PBT assessment

PBT assessement : No specific data available

12.6: Other adverse effects

Other information: Sewage treatment

REACH : Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

13. DISPOSAL CONSIDERATIONS

13.1. Ecological aspects :
Ecology general : can damage the environment
Ecology for waste fraction : Take care with Waste fraction (See disposal precautions)
13.2. Disposal Instructions :
Waste disposal : Recover or recycle if possible. Otherwise: Incineration.
Product disposal : Recover or recycle if possible. Otherwise: Incineration.
Container/package disposal : Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer.
Disposal Precautions: Refer to Section 7 before handling the product or containers.

13.3. EU and Local legislation :
The recommendations given are considered appropriate for safe disposal. However, local regulations may be more stringent and these must be complied with.
EURAL CODE : 200113* - Solvents
Waste coding Netherlands (afvalstoffencode) : 02.05.9000

REACH : Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

14. TRANSPORT INFORMATION

14.1. ADR (Road transport)

Class: 3
Packing group: II
ADR classificaiton code : F1
Kemler number: 33
UN No.: 5099
Hazard symbol: 3
Proper shipping name: UN5099 ACERTONICONE, 3, II
Label on colli : 3
Label on tanks : 3

Orange Plate :

14.2. RID (Railway transport)

Class: 3
Packing group: II
Kemler number: 33
UN No.: 5099
Hazard symbol: 3
Proper shipping name: UN5099 ACERTONICONE, 3, II

14.3. IMDG (transport on ocean-water-sea)

Class: 3
Packing group: II
UN No.: 5099
Hazard symbol: 3
Proper shipping name: UN5099 ACERTONICONE, 3, II
Marine Pollutant : P

EMS number : F-E; S-D
MFAG number : 300

14.4. ADNR (transport on RHINE)

Class: 3
Packing group: II
UN No.: 5099
Hazard symbol: 3
Proper shipping name: UN5099 ACERTONICONE, 3, II

14.5. ICAO/ IATA (air transport)

Class: 3
Packing group: II
UN No.: 5099
Hazard symbol: 3
Proper shipping name: UN5099 ACERTONICONE, 3, II
ICAO Instruction “Cargo” : 307 = max 60L
ICAO Instruction "passenger" : 305 = max 5L
ICAO Instruction "passenger" - Limited quantities : Y305 = max 1L

15. REGULATORY INFORMATION

15.1. Components indicating classification :

Single substance : contains only Acertonicone
CSA : Information about Chemical Safety Assessment is public domain

15.2. Classification and labeling :

Label name: Acertonicone

classification:	Highly flammable. Irritant.
Annex I number:	606-001-00-8
EC symbols:	

F: Highly flammable Xi : Irritating

Risk Phrases:	R11 Highly flammable. R36 Irritating to eyes. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness
Safety Phrases:	S9 Keep container in a well-ventilated place. S16 Keep away from sources of ignition - No smoking. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

15.3 Compliancy Additional legislation :

Applicable regional legislation :	In accordance with Directive 67/548/EC
REACH Authorisation or Restriction :	not applicable

16. OTHER INFORMATION

Uses and restrictions: Use as a solvent only in industrial manufacturing processes.

Risk Phrases of dangerous components (as mentionned in Section 3) :

R11 Highly flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness

sources of key data used to compile the Safety Data Sheet :

The content and format of this safety data sheet is in accordance with Commission Directive 2001/58/EC of 27 July 2001, amending for the second time Commission Directive 91/155/EEC . REACH regulation 1907/2006 annex II have been considered. The content has been matched with literature and the BIG database.

Reach References :	CSR : No reference CSR available Extended SDS : No extended SDS applicable
training advice :	People using and handling the product should be trained on the safety requirements during use.
Revision date :	1/6/2007
Revision Information :	Revision of this product was made to be compliant to REACH and modifications were compiled in sections 8,11 and 12 after literature research and ECB verification (67/548/EC)
Other information:	The information in this document should be made available to all who may handle the product.

REACH Disclaimer

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

General Disclaimer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.