

EC safety data sheet

Trade name: Clean Protect Si

Version: 1.0.0 / GB

Status: 29.11.2005

Date of printing: 29.11.2005

1.) Identification of the substance/preparation and company

Product details

Trade name

Clean Protect Si

Use

Detergent for press roller surfaces

Identification of the manufacturer / supplier

Address

KB Roller Tech Kopierwalzen GmbH
Zum Frenser Feld
D-50127 Bergheim

Telephone no. +49 (0)2273 942-133

Fax no. +49 (0)2273 942-129

Emergency telephone number

+49 (0)172 / 969 1208

2.) Composition / information on ingredients

Chemical characterization

Mixture (preparation)

Hazardous ingredients

ETHANOL

EC no.	200-578-6	Index no.	603-002-00-5	CAS no.	64-17-5
Concentration	> 10	< 20	%-b.w.		
Classification	F; R11				
Hazard symbols	F	R phrases	11		

BUTANONE

EC no.	201-159-0	Index no.	606-002-00-3	CAS no.	78-93-3
Concentration	> 70	< 80	%-b.w.		
Classification	F; R11 Xi; R36	R67 R66			
Hazard symbols	F, Xi	R phrases	11-36-66-67		

3.) Hazards identification

Classification

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

Hazard symbols

F	Highly flammable
Xi	Irritant

R phrases

11	Highly flammable.
36	Irritating to eyes.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

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4.) First aid measures

General information

In case of persisting adverse effects consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Summon a doctor immediately.

After skin contact

Wash off immediately with soap and water. Don't use solvents.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Eye treatment by an oculist.

After ingestion

Do not induce vomiting. Summon a doctor immediately. Never give anything by mouth to an unconscious person.

5.) Fire-fighting measures

Suitable extinguishing media

Alcohol-resistant foam; extinguishing powder; Water spray jet; Carbon dioxide

Extinguishing media that must not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

In the event of fire, the following can be released:

Carbon dioxide (CO₂)

Carbon monoxide (CO)

Traces of formaldehyde.

Special protective equipment for firefighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet.

6.) Accidental release measures

Personal precautions

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away sources of ignition.

Environmental precautions

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

Methods for cleaning up/taking up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When picked up, treat material as prescribed under heading "Disposal considerations".

7.) Handling and storage

Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and

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preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as it is possible by the state of the art

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

Storage

Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

Advice on storage assembly

Do not store together with:

Oxidizing agents

Acids

Alcalies

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

8.) Exposure controls / personal protection

Exposure limit values

ETHANOL

CAS no. 64-17-5
EC no. 200-578-6

Occupational Exposure Standards (OESs) / EH40

Ethanol
TWA 1920 mg/m³ 1000 ml/m³

BUTANONE

CAS no. 78-93-3
EC no. 201-159-0

2000/39/EWG

Butanone
TWA 600 mg/m³ 200 ml/m³
STEL 900 mg/m³ 300 ml/m³

Occupational Exposure Standards (OESs) / EH40

Butan-2-one
TWA 600 mg/m³ 200 ml/m³
STEL 899 mg/m³ 300 ml/m³
Skin resorption /
sensibilisation Sk

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Short term: filter apparatus, Filter A

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and

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antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Eye protection

Safety glasses with side protection shield (EN 166)

Skin protection

Clothing as usual in the chemical industry.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Have eye wash fountain available. Have emergency shower available.

9.) Physical and chemical properties

General information

Form	liquid
Colour	colourless
Odour	solvent-like

Important health, safety and environmental information

Changes in physical state

Type	Boiling range		
Value	75	- 80	°C
Pressure	1013	hPa	
Type	Melting temperature		
Value	-115	- -86	°C
Type	Decomposition temperature		
Value	>	250	°C

Flash point

Value		-4	°C
Method	DIN 51755		

Ignition temperature

Value	>	425	°C
Method	DIN 51794		

Explosion limits

Upper explosion limit	15,00	% vol
Lower explosion limit	1,80	% vol

Vapour pressure

Value	59	- 105	hPa
Reference temperature	20	°C	

Density

Value		0,80	g/cm ³
Reference temperature	20	°C	

Viscosity

Type	dynamic		
Value	0,40	- 1,20	mPa*s
Reference temperature	20	°C	

Solubility in water

Value		292	g/l
Reference temperature	20	°C	

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pH value

Reference temperature 20 °C

Remarks neutral

10.) Stability and reactivity

Conditions to avoid

Heat

Materials to avoid

Oxidizing agents; Acids; Alcalis

Hazardous decomposition products

At temperatures of ≥ 150 °C, by oxidic degradation small amounts of formaldehyde may be released in the presence of air.

11.) Toxicological information

Acute toxicity

Acute oral toxicity

LD50 2737 mg/kg

Species rat

Reference substance Butanone

Source RTECS

LD50 7060 mg/kg

Species rat

Reference substance Ethanol

Source RTECS

Acute dermal toxicity

LD50 6480 mg/kg

Species rabbit

Reference substance Butanone

Source RTECS

Acute inhalational toxicity

LC50 2737 mg/kg

Reference substance Butanone

Species rat

LC50 20000 ppm

Reference substance Ethanol

Duration of exposure 10 h

Species rat

Source RTECS

Effects after repeated or prolonged exposition (subacute, subchronic, chronic)

Mutagenicity

Remarks No experimental information on genotoxicity available.

Reproduction toxicity

Remarks No experimental information on reproduction toxic effects available.

Carcinogenicity

Remarks No experimental information on carcinogenic effects available.

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Experience in practice

Inhalation of vapours may lead to headache, drowsiness and dizziness.

Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract.

Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin.

Eye contact with the product may lead to irritation.

Other information (chapter 11.)

Product specific toxicological data are not known.

12.) Ecological information

Data on elimination (persistence and degradability)

Biodegradability

Evaluation	readily degradable
Reference substance	Butanone
Evaluation	readily degradable
Reference substance	Ethanol

Ecotoxic effects

Fish toxicity

LC50		3220	mg/l
Species	Pimephales promelas		
Duration of exposure	96	h	
Source	Merck		
Reference substance	Butanone		
LC50		8140	mg/l
Species	Leuciscus idus		
Duration of exposure	48	h	
Source	Merck		
Reference substance	Ethanol		

Daphnia toxicity

EC50		5091	mg/l
Species	Daphnia magna		
Duration of exposure	48	h	
Source	Merck		
Reference substance	Butanone		
EC50	>	9000	mg/l
Species	Daphnia magna		
Duration of exposure	48	h	
Source	Merck		
Reference substance	Ethanol		

Algae toxicity

IC50	>	4300	mg/l
Species	Scenedesmus quadricauda		
Duration of exposure	7	day(s)	
Source	Merck		
Reference substance	Butanone		
IC50		5000	mg/l
Species	Scenedesmus quadricauda		
Duration of exposure	7	day(s)	
Source	Merck		
Reference substance	Ethanol		

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General information / ecology

Do not discharge product unmonitored into the environment.

13.) Disposal considerations

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

14.) Transport information

Land transport ADR/RID

Class	3	Classification code	F1
Packaging group	II		
Hazard id. no.	33		
Label	3		
UN number	1993		
Technical name	Flammable liquid, n.o.s.		
Special Provision 640	D		
Danger releasing substance	ETHANOL BUTANONE		

Marine transport IMDG

Class	3
Packaging group	II
UN number	1993
Proper shipping name	Flammable liquid n.o.s.
Danger releasing substance	ETHANOL BUTANONE
EmS	F-E,S-E
MARPOL	-
Label	3

Air transport ICAO/IATA

Class	3
Packaging group	II
UN number	1993
Proper shipping name	Flammable liquid n.o.s.
Danger releasing substance	ETHANOL BUTANONE
Label	3

15.) Regulatory information

Labelling in accordance with EC directives

The product is classified and labelled in accordance with EC Directive 1999/45/EC.

Hazard symbols

F	Highly flammable
Xi	Irritant

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R phrases

- 11 Highly flammable.
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

S phrases

- 16 Keep away from sources of ignition --- No smoking.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 33 Take precautionary measures against static discharges.
- 51 Use only in well-ventilated areas.

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks Annex I, part 2, category 7 b

16.) Other information

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.
EC Directive 2001/58/EC as amended in each case.
EC Directive 2000/39/EC as amended in each case.
National Threshold Limit Values of the corresponding countries as amended in each case.
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Relevant R-phrases (chapter 2):

- 11 Highly flammable.
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

Department issuing safety data sheet

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