Safety Data Sheet

TEROSON SB A602B PA19KG

SDS No. : 265076
V001.7
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name:
TEROSON SB A602B PA19KG

Other means of identification:
TEROSON SB A602B PA19KG

Product code:
IDH1027773

Recommended use of the chemical and restrictions on use

Intended use:
Adhesive

Manufacturer/Importer/Distributor Representative Company

Henkel Thailand Ltd. The Offices at Centralworld,
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E-mail address of person responsible for Safety Data Sheet:
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Emergency Telephone for Chemical Accidents:
FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category	Route of Exposure	Target organ
Flammable liquids	Category 2		
Acute toxicity	Category 4	Oral	
Skin corrosion/irritation	Category 1B		
Serious eye damage/eye irritation	Category 1		
Skin sensitizer	Category 1		
Germ cell mutagenicity	Category 2		
Carcinogenicity	Category 1B		
Specific target organ toxicity - single exposure	Category 3		Central nervous system
Chronic hazards to the aquatic environment	Category 3		

GHS label elements:

Hazard pictogram:

Signal word:
Danger

Hazard statement:
H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H412 Harmful to aquatic life with long lasting effects.

Precaution:

Prevention:
P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.

Disposal:
P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section 3. Composition / information on ingredients

Substance or Mixture:
Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
Propan-2-ol 67-63-0	30- 60 %	Flammable liquids 2 H225 Serious eye damage/eye irritation 2A H319 Specific target organ toxicity - single exposure 3 H336 Aspiration hazard 2 H305
Formaldehyde, polymer with methylphenol and phenol 9039-25-2	30- 60 %	Skin sensitizer 1 H317
phenol 108-95-2	1- 10 %	Flammable liquids 4 H227 Acute toxicity 3; Oral H301 Acute toxicity 3; Inhalation H331 Acute toxicity 3; Dermal H311 Skin corrosion/irritation 1 H314 Germ cell mutagenicity 2 H341 Specific target organ toxicity - repeated exposure 2 H373 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411
Butanone 78-93-3	1- 10 %	Flammable liquids 2 H225 Acute toxicity 5; Oral H303 Acute toxicity 5; Inhalation H333 Skin corrosion/irritation 3 H316 Serious eye damage/eye irritation 2A H319 Specific target organ toxicity - single exposure 3 H336 Aspiration hazard 2 H305
o-cresol 95-48-7	1- 10 %	Flammable liquids 4 H227 Acute toxicity 3; Oral H301 Acute toxicity 3; Dermal H311 Skin corrosion/irritation 1 H314 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 3 H412
formaldehyde 50-00-0	0.1- 1 %	Flammable liquids 4 H227 Acute toxicity 3; Oral H301 Acute toxicity 3; Inhalation H331 Acute toxicity 3; Dermal H311 Skin corrosion/irritation 1 H314 Skin sensitizer 1 H317 Germ cell mutagenicity 2 H341

		Carcinogenicity 1B H350 Acute hazards to the aquatic environment 2 H401

Section 4. First aid measures

Inhalation:
Fresh air. Delayed effects possible after inhalation. Inform emergency services.

Skin contact:
Rinse immediately with plenty of running water (for 10 minutes). Remove all contaminated clothing and apply bandage. Seek medical advice.

Eye contact:
Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor.

Ingestion:
Rinse the mouth. Drink plenty of water. Immediate medical advice necessary.
Do not induce vomiting.

Symptoms/effects, acute and delayed:
Eye, skin and respiratory disorders.

Indication of immediate medical attention and special treatment needed:
See section: Description of first aid measures

Section 5. Fire fighting measures

Suitable extinguishing media:
All common extinguishing agents are suitable.

Improper extinguishing media:
Water jet (solvent-containing product).

Specific hazards arising from the chemical:
In case of fire toxic gases can be released.

Special protection equipment and precautions for firefighters:
Wear self-contained breathing apparatus.
Wear protective equipment.

Section 6. Accidental release measures

Personal precautions:
Wear protective equipment.
Avoid contact with skin and eyes.
Keep unprotected persons away.

Danger of slipping on spilled product.
See advice in section 8

Environmental precautions:
Do not empty into drains / surface water / ground water.
Inform authorities in the event of product spillage to water courses or sewage systems.

Clean-up methods:
Remove with liquid-absorbing material (sand, peat, sawdust).
Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:
Keep container closed.
Use proper bonding and/or grounding procedures.
Do not take internally.
Avoid skin and eye contact.
Avoid breathing vapors or mists of this product.

Storage:
Ensure good ventilation/extraction.
< + 15 °C
> + 4 °C

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

2-PROPANOL 67-63-0	**Value type**	Time Weighted Average (TWA):
	ppm	200
	Remarks	ACGIH
ISOPROPYL ALCOHOL (IPA) 67-63-0	**Value type**	Time Weighted Average (TWA):
	ppm	400
	Remarks	TH OEL
2-PROPANOL 67-63-0	**Value type**	Short Term Exposure Limit (STEL):
	ppm	400
	Remarks	ACGIH
PHENOL 108-95-2	**Value type**	Time Weighted Average (TWA):
	ppm	5
	Remarks	ACGIH
PHENOL 108-95-2	**Value type**	Time Weighted Average (TWA):
	ppm	5
	Remarks	TH OEL
PHENOL 108-95-2	**Value type**	Skin designation:
	Remarks	ACGIH Danger of cutaneous absorption
METHYL ETHYL KETONE (MEK) 78-93-3	**Value type**	Time Weighted Average (TWA):
	ppm	200
	Remarks	ACGIH
METHYL ETHYL KETONE (MEK) 78-93-3	**Value type**	Time Weighted Average (TWA):
	ppm	200
	Remarks	TH OEL
METHYL ETHYL KETONE (MEK) 78-93-3	**Value type**	Short Term Exposure Limit (STEL):
	ppm	300
	Remarks	ACGIH
CRESOL, ALL ISOMERS, INHALABLE FRACTION AND VAPOR 95-48-7	**Value type**	Time Weighted Average (TWA):
	mg/m³	20
	Remarks	ACGIH
CRESOL, ALL ISOMERS, INHALABLE FRACTION AND VAPOR 95-48-7	**Value type**	Skin designation:
	Remarks	ACGIH Danger of cutaneous absorption
Formaldehyde 50-00-0	**Value type**	Time Weighted Average (TWA):
	ppm	0.1
	Remarks	ACGIH
FORMALDEHYDE 50-00-0	**Value type**	Short Term Exposure Limit (STEL):
	ppm	2
	Remarks	TH OEL 15-min
Formaldehyde 50-00-0	**Value type**	Short Term Exposure Limit (STEL):
	ppm	0.3
	Remarks	ACGIH
FORMALDEHYDE 50-00-0	**Value type**	Time Weighted Average (TWA):
	ppm	0.75
	Remarks	TH OEL

Respiratory protection:
In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

Hand protection:
Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Body protection:
Wear protective equipment.
Protective clothing that covers arms and legs.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Engineering controls:
Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

General protection and hygiene measures:
The workplace should be equipped with an emergency shower and eye-rinsing facility.

Hygienic measures:
Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Take off contaminated clothing and wash before reuse.

Section 9. Physical and chemical properties

Appearance:	amber, Clear liquid
Odor:	Solvent
Odor threshold (CA):	No data available.
pH:	Not applicable, Product is non-soluble (in water).
Melting point / freezing point:	Not applicable, Product is a liquid
Specific gravity:	1.0
Boiling point:	79 - 81 °C (174.2 - 177.8 °F)
Flash point:	-6.7 °C (19.94 °F)
Evaporation rate:	Slower than diethyl ether.
Flammability (solid, gas):	Flammable liquid
Lower explosive limit:	No data available.
Upper explosive limit:	No data available.
Vapor pressure:	No data available.
Vapor density:	Heavier than air.
Density:	0.81 - 0.86 g/cm3
Solubility:	Appreciable (20 °C)
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	Not determined
Decomposition temperature:	No data available.

Viscosity: 0 - 1,000 cp (Brookfield; Instrument: RV; 25 °C (77 °F); speed of rotation: 20 min-1; Spindle No: 2; Method: ;;Bu-Q-13; TM-62 BROOKFIELD VISCOSITY)

VOC content: 685 g/l

Section 10. Stability and reactivity

Reactivity/Incompatible materials:
Reacts with strong oxidants.
Chemical stability:
Stable under recommended storage conditions.
Possibility of hazardous reactions:
Will not occur.
Conditions to avoid:
Heat, flames, sparks and other sources of ignition.
Hazardous decomposition products:
No decomposition if used according to specifications.

Section 11. Toxicological information

Oral toxicity: Acute toxicity estimate (ATE) : 1,995 mg/kg
Method: Calculation method

Inhalative toxicity: Acute toxicity estimate (ATE) : > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Dermal toxicity: Acute toxicity estimate (ATE) : > 2,000 mg/kg
Method: Calculation method

Health Effects:

Ingestion:	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspirated material can enter the lungs and result in pneumonitis.
Skin:	May be harmful or fatal if absorbed through skin. May cause irritation due to defatting of the skin. Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization reaction.
Eyes:	May cause severe eye irritation. May cause corneal injury.
Inhalation:	May cause severe irritation. Can cause pulmonary edema; signs and symptoms can be delayed for several hours. May cause central nervous system effects with nausea, dizziness and headache. Contains formaldehyde, which upon inhalation of vapor caused cancer in laboratory animals. This compound contains a material that may cause sensitization in some individuals, resulting in allergic symptoms of the respiratory tract producing asthma-like conditions (including wheezing, shortness of breath and difficulty breathing).
Route of exposure:	Skin, Inhalation, Eyes
Symptoms of Overexposure**:**	Vapors may cause drowsiness and dizziness. SKIN: Rash, Urticaria. INGESTION: Nausea, vomiting, diarrhea, abdominal pain. Causes burns.

Acute oral toxicity:

Propan-2-ol 67-63-0	Value type	LD50
	Value	5,840 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
phenol 108-95-2	Value type	Acute toxicity estimate (ATE)
	Value	140 mg/kg
	Species	
	Method	Expert judgement
phenol 108-95-2	Value type	LD50
	Value	140 mg/kg
	Species	Human
	Method	not specified
Butanone 78-93-3	Value type	LD50
	Value	2,737 mg/kg
	Species	rat
	Method	not specified
o-cresol 95-48-7	Value type	LD50
	Value	121 mg/kg
	Species	rat
	Method	not specified
formaldehyde 50-00-0	Value type	Acute toxicity estimate (ATE)
	Value	100 mg/kg
	Species	
	Method	Expert judgement

Acute inhalative toxicity:

phenol 108-95-2	Value type	LC50
	Value	> 0.9 mg/l
	Exposure time	8 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
phenol 108-95-2	Value type	Acute toxicity estimate (ATE)
	Value	1 mg/l
	Exposure time	4 h
	Species	
	Method	Expert judgement
Butanone 78-93-3	Value type	LC50
	Value	34.5 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified

Acute dermal toxicity:

Propan-2-ol 67-63-0	Value type	LD50
	Value	12,870 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
phenol 108-95-2	Value type	LD50
	Value	660 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Butanone 78-93-3	Value type	LD50
	Value	> 6,400 mg/kg
	Species	rabbit
	Method	not specified
o-cresol 95-48-7	Value type	LD50
	Value	890 mg/kg
	Species	rabbit
	Method	not specified
formaldehyde 50-00-0	Value type	LD50
	Value	270 mg/kg
	Species	rabbit
	Method	not specified

Skin corrosion/irritation:

Propan-2-ol 67-63-0	Result	slightly irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
phenol 108-95-2	Result	corrosive
	Exposure time	3 min
	Species	Human, normal, human-derived epidermal keratinocytes
	Method	OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)
phenol 108-95-2	Result	corrosive
	Exposure time	1 min
	Species	rabbit
	Method	not specified
Butanone 78-93-3	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
o-cresol 95-48-7	Result	corrosive
	Exposure time	4 h
	Species	rabbit
	Method	not specified
formaldehyde 50-00-0	Result	corrosive
	Exposure time	20 h

	Species	rabbit
	Method	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Propan-2-ol 67-63-0	Result	Category II
	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
phenol 108-95-2	Result	corrosive
	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Butanone 78-93-3	Result	irritating
	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
o-cresol 95-48-7	Result	corrosive
	Exposure time	
	Species	rabbit
	Method	not specified

Respiratory or skin sensitization:

Propan-2-ol 67-63-0	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
phenol 108-95-2	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Butanone 78-93-3	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
formaldehyde 50-00-0	Result	sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

Propan-2-ol 67-63-0	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Propan-2-ol 67-63-0	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Propan-2-ol 67-63-0	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
phenol 108-95-2	Result	positive
	Type of study / Route of administration	in vitro mammalian cell micronucleus test
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
phenol 108-95-2	Result	negative without metabolic activation
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
phenol 108-95-2	Result	positive
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Butanone 78-93-3	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Butanone 78-93-3	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	not applicable
	Method	equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Butanone 78-93-3	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Butanone 78-93-3	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
o-cresol 95-48-7	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
o-cresol 95-48-7	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
o-cresol 95-48-7	Result	positive
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
o-cresol	Result	negative

95-48-7	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
o-cresol 95-48-7	Result	negative
	Type of study / Route of administration	oral: feed
	Metabolic activation / Exposure time	
	Species	mouse
	Method	Micronucleus assay
formaldehyde 50-00-0	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	not specified
formaldehyde 50-00-0	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	without
	Method	Ames Test

Repeated dose toxicity:

Propan-2-ol 67-63-0	Result	
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	104 w6 h/d, 5 d/w
	Species	rat
	Method	OECD Guideline 451 (Carcinogenicity Studies)
phenol 108-95-2	Result	NOAEL=71 mg/kg
	Route of application	oral: drinking water
	Exposure time / Frequency of treatment	13 wdaily
	Species	rat
	Method	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
phenol 108-95-2	Result	NOAEL=20 mg/m3
	Route of application	inhalation
	Exposure time / Frequency of treatment	90 d8 h/d, 5 d/w
	Species	monkey
	Method	not specified
phenol 108-95-2	Result	NOAEL=130 mg/kg
	Route of application	dermal
	Exposure time / Frequency of treatment	18 d5 h/d, 5 d/w
	Species	rabbit
	Method	not specified
Butanone 78-93-3	Result	NOAEL=2500 ppm
	Route of application	inhalation
	Exposure time / Frequency of treatment	90 days6 hours/day, 5 days/week
	Species	rat
	Method	not specified
Butanone 78-93-3	Result	LOAEL=5000 ppm
	Route of application	inhalation
	Exposure time / Frequency of treatment	90 days6 hours/day, 5 days/week
	Species	rat
	Method	not specified
o-cresol 95-48-7	Result	NOAEL=50 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	13 weeksonce daily
	Species	rat
	Method	not specified
formaldehyde 50-00-0	Result	NOAEL=15 mg/kg
	Route of application	oral: drinking water
	Exposure time / Frequency of treatment	up to 105 wdaily ad libitum
	Species	rat
	Method	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Ecotoxicity: H412 Harmful to aquatic life with long lasting effects.

Toxicity:

Propan-2-ol 67-63-0	Value type	LC50
	Value	> 9,640 - 10,000 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Propan-2-ol 67-63-0	Value type	EC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	1,000 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Propan-2-ol 67-63-0	Value type	EC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
phenol 108-95-2	Value type	LC50
	Value	8.9 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
	Value type	NOEC
	Value	0.077 mg/l
	Acute Toxicity Study	Fish
	Exposure time	60 d
	Species	Cirrhinus mrigala
	Method	OECD Guideline 215 (Fish, Juvenile Growth Test)
phenol 108-95-2	Value type	EC50
	Value	3.1 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Ceriodaphnia dubia
	Method	other guideline:
phenol 108-95-2	Value type	EC50
	Value	61.1 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Pseudokirchneriella subcapitata (reported as Selenastrum capricornutum)
	Method	other guideline:
phenol 108-95-2	Value type	EC50
	Value	766 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge, industrial
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Butanone 78-93-3	Value type	LC50
	Value	3,220 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)

Butanone 78-93-3	Value type	EC50
	Value	5,091 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butanone 78-93-3	Value type	EC50
	Value	1,240 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	1,010 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Butanone 78-93-3	Value type	EC50
	Value	1,150 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	16 h
	Species	Pseudomonas putida
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
o-cresol 95-48-7	Value type	LC50
	Value	7 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	other guideline:
	Value type	NOEC
	Value	1.35 mg/l
	Acute Toxicity Study	Fish
	Exposure time	32 d
	Species	Pimephales promelas
	Method	OECD Guideline 210 (fish early lite stage toxicity test)
o-cresol 95-48-7	Value type	EC50
	Value	15.7 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	other guideline:
o-cresol 95-48-7	Value type	EC50
	Value	100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Selenastrum sp.
	Method	other guideline:
	Value type	NOEC
	Value	6.8 mg/l
	Acute Toxicity Study	Algae
	Exposure time	8 d
	Species	Microcystis aeruginosa
	Method	other guideline:
o-cresol 95-48-7	Value type	EC50
	Value	12.8 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	2 h
	Species	activated sludge of a predominantly domestic sewage
	Method	other guideline:
formaldehyde 50-00-0	Value type	LC50
	Value	6.7 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Morone saxatilis
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	NOEC
	Value	48 mg/l
	Acute Toxicity Study	Fish
	Exposure time	28 d
	Species	Oryzias latipes

	Method	OECD Guideline 215 (Fish, Juvenile Growth Test)
formaldehyde 50-00-0	Value type	EC50
	Value	5.8 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia pulex
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
formaldehyde 50-00-0	Value type	EC50
	Value	4.89 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
formaldehyde 50-00-0	Value type	EC50
	Value	19 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Propan-2-ol 67-63-0	Result	readily biodegradable
	Route of application	aerobic
	Degradability	70 - 84 %
	Method	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
phenol 108-95-2	Result	readily biodegradable
	Route of application	aerobic
	Degradability	62 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Butanone 78-93-3	Result	readily biodegradable
	Route of application	aerobic
	Degradability	98 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
o-cresol 95-48-7	Result	readily biodegradable
	Route of application	aerobic
	Degradability	86 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
formaldehyde 50-00-0	Result	readily biodegradable
	Route of application	aerobic
	Degradability	93 - 95 %
	Method	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Propan-2-ol 67-63-0	LogPow	0.05
	Temperature	
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
phenol 108-95-2	Bioconcentration factor (BCF)	17.5
	Exposure time	5 h
	Species	Danio rerio (reported as Brachydanio rerio)
	Temperature	25 °C
	Method	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
phenol 108-95-2	LogPow	1.47
	Temperature	30 °C
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Butanone 78-93-3	LogPow	0.3
	Temperature	40 °C
	Method	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
o-cresol 95-48-7	Bioconcentration factor (BCF)	10.7
	Exposure time	
	Species	Brachydanio rerio (new name: Danio rerio)
	Temperature	25 °C
	Method	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)

o-cresol 95-48-7	LogPow	1.95
	Temperature	
	Method	EU Method A.8 (Partition Coefficient)
formaldehyde 50-00-0	LogPow	0.35
	Temperature	25 °C
	Method	QSAR (Quantitative Structure Activity Relationship)

Section 13. Disposal considerations

Product

Method of disposal:
Dispose of in accordance with local and national regulations.

Packaging

Disposal of uncleaned packages:
Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road transport ADR:

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1133
Label:	3
Technical name:	ADHESIVES
Additional information:	Special provision 640D

Railroad transport RID:

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1133
Label:	3
Technical name:	ADHESIVES
Additional information:	Special provision 640D

Inland water transport ADN:

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1133
Label:	3
Technical name:	ADHESIVES
Additional information:	Special provision 640D

Marine transport IMDG:

Class:	3
Packing group:	II
UN no.:	1133
Label:	3
EmS:	F-E ,S-D
Seawater pollutant:	-
Proper shipping name:	ADHESIVES

Air transport IATA:

Class:	3
Packing group:	II
Packaging instructions (passenger):	353
Packaging instructions (cargo):	364
UN no.:	1133
Label:	3
Proper shipping name:	Adhesives

Section 15. Regulatory information

Regulatory Information:
Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555

Global inventory status:

Regulatory list	Notification
TSCA	yes
DSL	yes
KECI (KR)	yes
ENCS (JP)	yes
ISHL (JP)	yes
IECSC	yes
AIIC	yes
TCSI	yes
PICCS (PH)	yes
EINECS	yes

Section 16. Other information

Disclaimer:
This Safety Data Sheet has been generated based on Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555 only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.
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