Safety Data Sheet according to Singapore Standard SS 586.

BONDERITE S-ST 5351 AERO known as TURCO 5351 (T-5469) *MBO 330GLS

SDS No. : 192808
V001.10
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: BONDERITE S-ST 5351 AERO known as TURCO 5351 (T-5469) *MBO 330GLS

Other means of identification: BONDERITE S-ST 5351 AERO
Product code: IDH596971
Recommended use of the chemical and restrictions on use

Intended use: Paint stripping agents
Manufacturer/Importer/Distributor Representative Company

Henkel Singapore Pte Ltd
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Singapore

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E-mail address of person responsible for Safety Data Sheet: ap-ua-psra.sea@henkel.com

Emergency Telephone for Chemical Accidents: FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call: +65 6424 7016

Section 2. Hazards identification

GHS Classification:

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

GHS label elements:

Hazard pictogram:



Signal word: Danger

Hazard statement:	H302+H332 Harmful if swallowed or if inhaled. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H336 May cause drowsiness or dizziness. H340 May cause genetic defects. H350 May cause cancer. H360 May damage fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.
Precaution:	
Prevention:	P201 Obtain special instructions before use. P260 Do not breathe 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. P284 [In case of inadequate ventilation] wear respiratory 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.
Storage:	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
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
dichloromethane 75-09-2	30- 60 %	Skin irritation 2 H315 Serious eye irritation 2 H319 Carcinogenicity 2 H351 Target Organ Systemic Toxicant - Single exposure 3 H336
phenol 108-95-2	10- 30 %	Acute toxicity 3; Oral H301 Acute toxicity 3; Inhalation H331 Acute toxicity 3; Dermal H311 Skin corrosion 1B H314 Germ cell mutagenicity 2 H341 Target Organ Systemic Toxicant - Repeated exposure 2 H373 Chronic hazards to the aquatic environment 2 H411
Sodium dichromate 10588-01-9	0.1- 1 %	Oxidizing solids 2 H272 Acute toxicity 3; Oral H301 Acute toxicity 2; Inhalation H330 Acute toxicity 4; Dermal H312 Skin corrosion 1B H314 Respiratory Sensitization 1 H334 Skin Sensitization 1 H317 Germ cell mutagenicity 1B H340 Carcinogenicity 1B H350 Reproductive toxicant. 1B H360 Target Organ Systemic Toxicant - Repeated exposure 1 H372 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410
Methyloxirane 75-56-9	0.1- 1 %	Flammable liquids 1 H224 Acute toxicity 4; Oral H302 Acute toxicity 3; Inhalation H331 Acute toxicity 3; Dermal H311 Serious eye irritation 2 H319 Germ cell mutagenicity 1B H340 Carcinogenicity 1B H350 Target Organ Systemic Toxicant - Single exposure 3 H335
chloroform 67-66-3	0.1- 1 %	Acute toxicity 4; Oral H302

		Acute toxicity 3; Inhalation H331 Skin irritation 2 H315 Serious eye irritation 2 H319 Carcinogenicity 2 H351 Reproductive toxicant. 2 H361 Target Organ Systemic Toxicant - Repeated exposure 1 H372
Chloromethane 74-87-3	0.1- 1 %	Flammable gases 1A H220 Gases under pressure Compr. Gas H280 Carcinogenicity 2 H351 Reproductive toxicant. 2 H361 Target Organ Systemic Toxicant - Repeated exposure 2 H373

Section 4. First aid measures

Inhalation: Move to fresh air.
If not breathing, give artificial respiration.
Get immediate medical attention.

Skin contact: In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water.
If symptoms develop and persist, get medical attention.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion: Do not induce vomiting.
Give one to two glasses of water or milk.
Never give anything by mouth to a victim who is unconscious or is having convulsions.
Get immediate medical attention.

Section 5. Fire fighting measures

Suitable extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical: Not a fire hazard.

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

Hazardous combustion products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Thermal decomposition products are toxic and include hydrogen chloride and phosgene, in lesser amounts.
Chlorine.
When heated to decomposition it emits fumes of chlorine.

Section 6. Accidental release measures

Personal precautions:
Avoid skin and eye contact.
Wear protective equipment.
Ensure adequate ventilation.
See advice in section 8

Environmental precautions:
Prevent further leakage or spillage if safe to do so.
Isolate area. Keep unnecessary personnel away.
Do not empty into drains / surface water / ground water.

Clean-up methods:
Absorb spill with inert material. Shovel material into appropriate container for disposal.
Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:
Avoid contact with eyes, skin and clothing.
Avoid breathing vapors or mists of this product.
Provide adequate ventilation.
Do not take internally.
Keep container closed.
Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers.
Use good hygiene practices when handling this material, including changing and laundering work clothes after use. Discard contaminated shoes and leather goods.

Storage:
Store between 40°F and 90°F. (5° and 32°C).
Store in tightly closed containers. In a cool/well-ventilated area.
Open bung slowly to relieve any internal pressure.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

DICHLOROMETHANE 75-09-2	**Value type**	Time Weighted Average (TWA):
	ppm	50
	Remarks	ACGIH
METHYLENE CHLORIDE (DICHLOROMETHANE) 75-09-2	**Value type**	Time Weighted Average (TWA):
	ppm	50
	mg/m³	174
	Remarks	SG OEL
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
	mg/m³	19
	Remarks	SG OEL
PHENOL 108-95-2	**Value type**	Skin designation:
	Remarks	ACGIH Danger of cutaneous absorption
Chromium metal and inorganic compounds: Water soluble Cr VI compounds, as Cr 10588-01-9	**Value type**	Time Weighted Average (TWA):
	mg/m³	0.05
	Remarks	SG OEL
HEXAVALENT CHROMIUM INORGANIC COMPOUNDS, INCLUDING CHROMITE ORE PROCESSING, AS CR (VI), INHALABLE FRACTION 10588-01-9	**Value type**	Time Weighted Average (TWA):
	mg/m³	0.0002
	Remarks	ACGIH
HEXAVALENT CHROMIUM INORGANIC COMPOUNDS, INCLUDING CHROMITE ORE PROCESSING, AS CR (VI), INHALABLE FRACTION 10588-01-9	**Value type**	Short Term Exposure Limit (STEL):
	mg/m³	0.0005
	Remarks	ACGIH
Hexavalent chromium water soluble inorganic compounds, including Chromite ore processing, as Cr (VI), inhalable fraction 10588-01-9	**Value type**	Skin designation:
	Remarks	ACGIH Danger of cutaneous absorption
Hexavalent chromium water soluble inorganic compounds, including Chromite ore processing, as Cr (VI), inhalable fraction 10588-01-9	**Value type**	Time Weighted Average (TWA):
	mg/m³	0.0002
	Remarks	ACGIH
Hexavalent chromium water soluble inorganic compounds, including Chromite ore processing, as Cr (VI), inhalable fraction 10588-01-9	**Value type**	Short Term Exposure Limit (STEL):
	mg/m³	0.0005
	Remarks	ACGIH
PROPYLENE OXIDE 75-56-9	**Value type**	Time Weighted Average (TWA):
	ppm	2
	Remarks	ACGIH

PROPYLENE OXIDE (1,2-EPOXYPROPANE) 75-56-9	**Value type**	Time Weighted Average (TWA):
	ppm	20
	mg/m³	48
	Remarks	SG OEL
CHLOROFORM 67-66-3	**Value type**	Time Weighted Average (TWA):
	ppm	10
	Remarks	ACGIH
CHLOROFORM (TRICHLOROMETHANE) 67-66-3	**Value type**	Time Weighted Average (TWA):
	ppm	10
	mg/m³	49
	Remarks	SG OEL
METHYL CHLORIDE 74-87-3	**Value type**	Time Weighted Average (TWA):
	ppm	50
	mg/m³	103
	Remarks	SG OEL
METHYL CHLORIDE 74-87-3	**Value type**	Time Weighted Average (TWA):
	ppm	50
	Remarks	ACGIH
METHYL CHLORIDE 74-87-3	**Value type**	Short Term Exposure Limit (STEL):
	ppm	100
	Remarks	ACGIH
METHYL CHLORIDE 74-87-3	**Value type**	Skin designation:
	Remarks	ACGIH Danger of cutaneous absorption
METHYL CHLORIDE 74-87-3	**Value type**	Short Term Exposure Limit (STEL):
	ppm	100
	mg/m³	207
	Remarks	SG OEL

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye protection: Wear chemical goggles; face shield (if splashing is possible).
Protective eye equipment should conform to EN166.

Body protection: Chemical resistant, impermeable gloves.
Use of impervious apron and boots are recommended.
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:	dark yellow Liquid
Odor:	Acrid
Odor threshold (CA):	No data available.
pH:	9.0 - 11.0
Melting point / freezing point:	Not determined
Specific gravity:	1.17 - 1.19
Boiling point:	40.6 °C (105.1 °F)
Flash point:	Not applicable
Evaporation rate:	1 (Butyl acetate = 1)
Flammability (solid, gas):	No data available.
Lower explosive limit:	Not applicable
Upper explosive limit:	Not applicable
Vapor pressure:	107 mm hg Estimated
Vapor density:	> 1
Density:	No data available.
Solubility:	Appreciable
Partition coefficient: n-octanol/water:	Not determined
Auto ignition:	Not applicable
Decomposition temperature:	No data available.
Viscosity:	10 - 50 cp (; Instrument: RVT; speed of rotation: 20 min-1; Spindle No: 3; Method: ;; HST-US E33V; Brookfield Viscosity)
VOC content:	197 g/l

Section 10. Stability and reactivity

Reactivity/Incompatible materials:	Incompatible with strong oxidants, strong bases, alkali metals, amines, and carbonates.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Will not occur.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials.
Hazardous decomposition products:	Thermal decomposition products are toxic and include hydrogen chloride and phosgene, in lesser amounts.

Section 11. Toxicological information

Oral toxicity:	Acute toxicity estimate (ATE) : 796.24 mg/kg Method: Calculation method
Inhalative toxicity:	Acute toxicity estimate (ATE) : 3.66 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:	Harmful if swallowed.
Skin:	Causes skin burns.
	May cause an allergic skin reaction.
Eyes:	Causes serious eye damage.
Inhalation:	Harmful if inhaled.
	May cause allergic skin and respiratory tract reaction.
Symptoms of Overexposure**:**	None known.

Acute oral toxicity:

dichloromethane 75-09-2	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
dichloromethane 75-09-2	Value type	Acute toxicity estimate (ATE)
	Value	2,500 mg/kg
	Species	
	Method	Expert judgement
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
Sodium dichromate 10588-01-9	Value type	LD50
	Value	123.5 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Methyloxirane 75-56-9	Value type	LD50
	Value	382 - 587 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Methyloxirane 75-56-9	Value type	Acute toxicity estimate (ATE)
	Value	382 mg/kg
	Species	
	Method	Expert judgement
chloroform 67-66-3	Value type	LD50
	Value	908 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)

Acute inhalative toxicity:

dichloromethane 75-09-2	Value type	LC50
	Value	86 mg/l
	Exposure time	4 h
	Species	mouse
	Method	not specified
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
Sodium dichromate 10588-01-9	Value type	Acute toxicity estimate (ATE)
	Value	0.099 mg/l
	Exposure time	
	Species	
	Method	Expert judgement
Methyloxirane 75-56-9	Value type	LC50
	Value	9.95 mg/l
	Exposure time	4 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Chloromethane 74-87-3	Value type	LC50
	Value	> 10557 ppm
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)

Acute dermal toxicity:

dichloromethane 75-09-2	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
dichloromethane 75-09-2	Value type	Acute toxicity estimate (ATE)
	Value	2,500 mg/kg
	Species	
	Method	Expert judgement
phenol 108-95-2	Value type	LD50
	Value	660 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Sodium dichromate 10588-01-9	Value type	Acute toxicity estimate (ATE)
	Value	1,100 mg/kg
	Species	
	Method	Expert judgement
Sodium dichromate 10588-01-9	Value type	LD50
	Value	< 2,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
Methyloxirane 75-56-9	Value type	LD50
	Value	950 mg/kg
	Species	rabbit
	Method	not specified
chloroform 67-66-3	Value type	LD50
	Value	> 20,000 mg/kg
	Species	rabbit
	Method	not specified

Skin corrosion/irritation:

dichloromethane 75-09-2	Result	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
Methyloxirane 75-56-9	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

dichloromethane 75-09-2	Result	irritating
	Exposure time	
	Species	rabbit
	Method	not specified
phenol 108-95-2	Result	corrosive
	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

dichloromethane 75-09-2	Result	not sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
phenol 108-95-2	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Methyloxirane 75-56-9	Result	not sensitising
	Test type	Split adjuvant test
	Species	guinea pig
	Method	Maguire Method
chloroform 67-66-3	Result	not sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	EU Method B.42 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

dichloromethane 75-09-2	Result	positive
	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)
dichloromethane 75-09-2	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)
dichloromethane 75-09-2	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
	Method	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)
Sodium dichromate 10588-01-9	Result	positive
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	not specified
Sodium dichromate 10588-01-9	Result	positive
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	not specified
Sodium dichromate 10588-01-9	Result	positive
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	not specified
Sodium dichromate 10588-01-9	Result	positive
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	not specified
Sodium dichromate 10588-01-9	Result	positive
	Type of study / Route of administration	
	Metabolic activation / Exposure time	with and without
	Method	not specified
Sodium dichromate 10588-01-9	Result	positive
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	not specified
Sodium dichromate 10588-01-9	Result	positive
	Type of study / Route of administration	
	Metabolic activation / Exposure time	
	Species	
	Method	not specified
Sodium dichromate 10588-01-9	Result	ambiguous
	Type of study / Route of administration	oral: drinking water
	Metabolic activation / Exposure time	
	Species	mouse
	Method	not specified
Sodium dichromate	Result	ambiguous

10588-01-9	Type of study / Route of administration	oral: drinking water
	Metabolic activation / Exposure time	
	Species	mouse
	Method	not specified
Methyloxirane 75-56-9	Result	positive
	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)
Methyloxirane 75-56-9	Result	positive
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	without
	Method	equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Methyloxirane 75-56-9	Result	positive
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	without
	Method	equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Methyloxirane 75-56-9	Result	negative
	Type of study / Route of administration	inhalation: vapour
	Metabolic activation / Exposure time	
	Species	rat
	Method	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Methyloxirane 75-56-9	Result	negative
	Type of study / Route of administration	inhalation: vapour
	Metabolic activation / Exposure time	
	Species	rat
	Method	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
chloroform 67-66-3	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
chloroform 67-66-3	Result	negative
	Type of study / Route of administration	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro
	Metabolic activation / Exposure time	without
	Method	OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
chloroform 67-66-3	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
chloroform 67-66-3	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Chloromethane 74-87-3	Result	positive
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	without
	Method	equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Repeated dose toxicity:

dichloromethane 75-09-2	Result	NOAEL=6 mg/kg
	Route of application	oral: drinking water
	Exposure time / Frequency of treatment	104 wdaily
	Species	rat
	Method	OECD Guideline 453 (Combined Chronic Toxicity / 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
Methyloxirane 75-56-9	Result	
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	123 w6 h/d, 5 d/w
	Species	rat
	Method	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
chloroform 67-66-3	Result	
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	13 w6 h/d
	Species	mouse
	Method	EU Method B.29 (Sub-Chronic Inhalation Toxicity Test:90-Day Repeated Inhalation Dose Study Using Rodent Species)
chloroform 67-66-3	Result	LOAEL=15 mg/kg
	Route of application	oral: capsule
	Exposure time / Frequency of treatment	7.5 y6 d/w
	Species	dog
	Method	EU Method B.33 (Combined Chronic Toxicity / Carcinogenicity Test)

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:

dichloromethane 75-09-2	Value type	LC50
	Value	193 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)

	Value type	NOEC
	Value	83 mg/l
	Acute Toxicity Study	Fish
	Exposure time	28 d
	Species	Pimephales promelas
	Method	other guideline:
dichloromethane 75-09-2	Value type	EC50
	Value	27 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
dichloromethane 75-09-2	Value type	EC50
	Value	> 660 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
dichloromethane 75-09-2	Value type	EC50
	Value	2,590 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	40 min
	Species	activated sludge, domestic
	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)
Sodium dichromate 10588-01-9	Value type	LC50
	Value	13 - 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	NOEC
	Value	0.13 mg/l
	Acute Toxicity Study	Fish
	Exposure time	60 d
	Species	Oncorhynchus mykiss
	Method	other guideline:
Sodium dichromate 10588-01-9	Value type	EC50
	Value	0.08 mg/l

	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Ceriodaphnia sp.
	Method	other guideline:
Sodium dichromate 10588-01-9	Value type	EC50
	Value	0.96 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	0.03 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	other guideline:
Sodium dichromate 10588-01-9	Value type	EC 50
	Value	75.5 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Methyloxirane 75-56-9	Value type	LC50
	Value	32 mg/l
	Acute Toxicity Study	Fish
	Exposure time	14 d
	Species	Poecilia reticulata
	Method	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
	Value type	LC50
	Value	52 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)
Methyloxirane 75-56-9	Value type	EC50
	Value	350 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	other guideline:
Methyloxirane 75-56-9	Value type	EC50
	Value	240 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Pseudokirchneriella subcapitata
	Method	other guideline:
chloroform 67-66-3	Value type	LC50
	Value	71 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	NOEC
	Value	1.463 mg/l
	Acute Toxicity Study	Fish
	Exposure time	270 d
	Species	Oryzias latipes
	Method	other guideline:
chloroform 67-66-3	Value type	EC50
	Value	65.7 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
chloroform 67-66-3	Value type	EC50
	Value	950 mg/l
	Acute Toxicity Study	Algae
	Exposure time	48 h

	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	DIN 38412-09
	Value type	EC10
	Value	360 mg/l
	Acute Toxicity Study	Algae
	Exposure time	48 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	DIN 38412-09
chloroform 67-66-3	Value type	EC50
	Value	840 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	not specified
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Chloromethane 74-87-3	Value type	LC50
	Value	550 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Lepomis macrochirus
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Chloromethane 74-87-3	Value type	EC50
	Value	200 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	24 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Chloromethane 74-87-3	Value type	EC50
	Value	> 550 mg/l
	Acute Toxicity Study	Algae
	Exposure time	7 d
	Species	Microcystis aeruginosa
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Chloromethane 74-87-3	Value type	NOEC
	Value	500 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	24 h
	Species	
	Method	not specified

Persistence and degradability:

dichloromethane 75-09-2	Result	readily biodegradable
	Route of application	aerobic
	Degradability	68 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed 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))
Methyloxirane 75-56-9	Result	readily biodegradable
	Route of application	aerobic
	Degradability	86 - 96 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
chloroform 67-66-3	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	0 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Chloromethane 74-87-3	Result	readily biodegradable
	Route of application	aerobic
	Degradability	77 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

dichloromethane 75-09-2	Bioconcentration factor (BCF)	2 - 40
	Exposure time	42 d
	Species	Cyprinus carpio

	Temperature	25 °C
	Method	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
dichloromethane 75-09-2	LogPow	1.25
	Temperature	20 °C
	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)
Methyloxirane 75-56-9	LogPow	< 1
	Temperature	20 °C
	Method	other (measured)
chloroform 67-66-3	Bioconcentration factor (BCF)	4.1 - 13
	Exposure time	42 d
	Species	Cyprinus carpio
	Temperature	25 °C
	Method	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
chloroform 67-66-3	LogPow	2
	Temperature	25 °C
	Method	not specified
Chloromethane 74-87-3	LogPow	0.91
	Temperature	
	Method	not specified

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:	8
Packing group:	III
Classification code:	CT1
Hazard ident. number:	86
UN no.:	2922
Label:	8 (6.1)
Technical name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Phenol,Dichloromethane,Sodium dichromate)

Railroad transport RID:

Class:	8
Packing group:	III
Classification code:	CT1
Hazard ident. number:	86
UN no.:	2922
Label:	8 (6.1)
Technical name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Phenol,Dichloromethane,Sodium dichromate)

Inland water transport ADN:

Class:	8
Packing group:	III
Classification code:	CT1
Hazard ident. number:	86
UN no.:	2922
Label:	8, 6.1
Technical name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Phenol,Dichloromethane,Sodium dichromate)

Marine transport IMDG:

Class:	8
Packing group:	III
UN no.:	2922
Label:	8 (6.1)
EmS:	F-A ,S-B
Seawater pollutant:	-
Proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Phenol,Dichloromethane,Sodium dichromate)

Air transport IATA:

Class:	8
Packing group:	III
Packaging instructions (passenger):	852
Packaging instructions (cargo):	856
UN no.:	2922
Label:	8 (6.1)
Proper shipping name:	Corrosive liquid, toxic, n.o.s. (Phenol,Dichloromethane,Sodium dichromate)

Section 15. Regulatory information

Regulatory Information: Workplace Safety And Health Act (Chapter 354A, Section 40B) Workplace Safety And Health (Approved Codes of Practice) Notification 2020.
Workplace Safety And Health Act (Chapter 354A, Section 65) Workplace Safety And Health (General Provisions) (Amendment No.2) Regulations 2024

Global inventory status:

Regulatory list	Notification
TSCA	yes
DSL	yes

Section 16. Other information

Disclaimer:

This Safety Data Sheet has been generated based on Workplace Safety And Health Act (Chapter 354A, Section 40B) Workplace Safety And Health (Approved Codes of Practice) Notification 2020 and Workplace Safety And Health Act (Chapter 354A, Section 65) Workplace Safety And Health (General Provisions) (Amendment No.2) Regulations 2024 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.This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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