



Safety Data Sheet

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BONDERITE S-ST 5351 PAINT STRIPPER AERO known as
TURCO 5351 (20LT)

SDS No. : 319686

V001.2

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SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: BONDERITE S-ST 5351 PAINT STRIPPER AERO known as TURCO 5351 (20LT)

Intended use: Paint stripping agents

Supplier:
Henkel New Zealand Ltd
2 Allens Rd
Auckland, 2013
New Zealand
Phone: +64 (9) 272-6710

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>	<u>Target organ</u>
Acute toxicity	Category 3	Oral	
Acute toxicity	Category 3	Inhalation	
Acute toxicity	Category 3	Dermal	
Skin corrosion	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		
Target Organ Systemic Toxicant - Single exposure	Category 3		Central nervous system
Target Organ Systemic Toxicant - Repeated exposure	Category 2		
Acute hazards to the aquatic environment	Category 2		
Chronic hazards to the aquatic environment	Category 2		

Hazard pictogram:



Signal word:	Danger
Hazard statement(s):	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. H411 Toxic to aquatic life with long lasting effects.
Precautionary Statement(s):	
Prevention:	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. 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. P271 Use only outdoors or in a well-ventilated area. 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. P281 Use personal protective equipment as required. P285 In case of inadequate ventilation wear respiratory protection.
Response:	P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P301+P310 IF SWALLOWED: Immediately call a physician or poison control center. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. P308+P313 IF exposed or concerned: Get medical advice/attention. P310 Immediately call a POISON CENTER/doctor. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P361 Take off immediately all contaminated clothing. P363 Wash contaminated clothing before reuse.
Storage:	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
dichloromethane	75-09-2	30- < 60 %
phenol	108-95-2	10- < 30 %
Resin acids and Rosin acids, sodium salts	61790-51-0	< 10 %
sodium chromate	7775-11-3	1- < 3 %
non hazardous ingredients~		10- < 60 %

SECTION 4 FIRST AID MEASURES

Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Do not give fluids. Immediate medical treatment necessary.
Skin:	Immediately remove soiled or soaked clothing. Wash affected area immediately with soap and water. Get immediate medical attention.
Eyes:	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.
Inhalation:	Move to fresh air in case of accidental inhalation of vapours. If breathing has stopped, give artificial respiration. Keep warm and quiet. Immediate medical treatment necessary.
First Aid facilities:	Eye wash and safety shower
Medical attention and special treatment:	Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Improper extinguishing media:	High pressure waterjet
Decomposition products in case of fire:	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Oxides of nitrogen. chromium oxides Hazardous decomposition products include chlorine compounds. Decomposition products include oxides of sodium.
Special protective equipment for fire-fighters:	Wear full protective clothing. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
Additional fire fighting advice:	In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains.
Hazchem code:	2XE

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure adequate ventilation. Avoid inhalation of vapor, fumes, dust and/or mist from the spilled material. Avoid skin and eye contact. Wear protective equipment. Keep unprotected persons away. See advice in section 8
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Absorb spill with inert material. Shovel material into appropriate container for disposal. Wash away residue with plenty of water. Dike contaminated water and removed for disposal and/or treatment.

SECTION 7. HANDLING AND STORAGE

- Precautions for safe handling:** Avoid naked flames, sparking and sources of ignition.
Use only with adequate ventilation.
Vapours should be extracted to avoid inhalation.
Avoid contact with eyes, skin and clothing.
Wear suitable protective clothing, gloves and eye/face protection.
See advice in section 8
- Conditions for safe storage:** Store below 60°C (140°F)
Do not store or use near heat, spark, open flame or other sources of ignition.
Production of this gas can cause sealed containers to expand and possibly rupture explosively.
Store in a cool, dry, well-ventilated area.
Do not store together with oxidants.
Do not store together with strong bases or very alkaline substances.

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Workplace exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Ceiling	STEL (ppm)	STEL (mg/m3)
METHYLENE CHLORIDE 75-09-2		50	174	-	-	-
PHENOL 108-95-2		5		-	-	-
CHROMIUM (VI) COMPOUNDS, ASCR 7775-11-3			0.01	-	-	-
CHROMIUM (VI) COMPOUNDS, ASCR, WATER SOLUBLE			0.01	-	-	-

Biological Exposure Indices:

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Phenol 108-95-2 [PHENOL]	Phenol following hydrolysis	Creatinine in urine	Sampling time: End of shift.	120 mg/g	NZ BEI		
Sodium chromate 7775-11-3 [CHROMIUM (VI) WATER SOLUBLE FUME [BEL 2]]	Total chromium	Urine	Sampling time: Increase at end of 8-hour exposure.	10 µg/l	NZ BEI		
Sodium chromate 7775-11-3 [CHROMIUM (VI) WATER SOLUBLE FUME]	Total chromium	Urine	Sampling time: End of shift at end of work week.	25 µg/l	NZ BEI		

Engineering controls:	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Eye protection:	For eye protection, use tightly fitted safety goggles and a face-shield
Skin protection:	Wear suitable protective clothing. The use of polyvinyl alcohol (PVA) gloves is recommended. Use of protective coveralls and long sleeves is recommended. Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.
Respiratory protection:	If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	yellow viscous, liquid
Odor:	Phenol-like
pH:	Not available.
Melting point / freezing point:	Not available.
Boiling point:	40 °C (104 °F) Approximately
Flash point:	Not available.
Density:	1.16 - 1.18 g/cm ³
Solubility in water:	Partially soluble

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of temperature and pressure.
Conditions to avoid:	Avoid heating. Direct sunlight.
Incompatible materials:	Strong alkalis. Strong acids. Powdered metals. Strong oxidizing agents.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Oxides of nitrogen. Chromium oxide. Hazardous decomposition products include chlorine compounds. Decomposition products include oxides of sodium.

SECTION 11. TOXICOLOGICAL INFORMATION

Health Effects:

Ingestion:

Harmful if swallowed.

This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Skin:

Corrosive to skin.

May cause an allergic skin reaction.

Absorption of phenolic solutions through the skin may be very rapid and can cause death. Lesser exposures can damage to the kidneys, liver, pancreas, and spleen, and edema of lungs. Chronic exposures can cause death from liver and kidney damage.

Eyes:

Causes serious eye damage.

Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Inhalation:

Harmful if inhaled.

May cause allergic respiratory reaction.

May cause central nervous system effects.

STOT-single exposure::

Target Organs: Central nervous system

Category 3 with narcotic effects.

Carcinogenicity:

Category 1B (Carcinogen), May cause cancer.

Toxicity for reproduction:

Toxic to reproduction, category 1B, May damage fertility or the unborn child.

Mutagenicity:

Category 1B (Mutagen), This product contains an ingredient which has been associated with mutagenicity effects.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
dichloromethane 75-09-2	LD50 LC50 LD50	2,120 mg/kg 86 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat mouse rat	not specified not specified OECD Guideline 402 (Acute Dermal Toxicity)
phenol 108-95-2	LD50 Acute toxicity estimate (ATE) LC50 Acute toxicity estimate (ATE) LD50	140 mg/kg 140 mg/kg > 0.9 mg/l 1 mg/l 660 mg/kg	oral oral inhalation inhalation dermal	8 h 4 h	Human rat rat	not specified Expert judgement equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) Expert judgement OECD Guideline 402 (Acute Dermal Toxicity)
Resin acids and Rosin acids, sodium salts 61790-51-0	LD50 LD50	> 2,000 mg/kg > 2,000 mg/kg	oral dermal		rat rat	OECD Guideline 420 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
sodium chromate 7775-11-3	LD50 LC50 LD50	67 mg/kg 0.083 mg/l 1,330 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
dichloromethane 75-09-2	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
phenol 108-95-2	corrosive	3 min		OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
dichloromethane 75-09-2	irritating		rabbit	not specified
phenol 108-95-2	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
dichloromethane 75-09-2	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
phenol 108-95-2	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study/ Route of administration	Metabolic activation/ Exposure time	Species	Method
dichloromethane 75-09-2	positive positive	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
dichloromethane 75-09-2	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
phenol 108-95-2	positive negative without metabolic activation	in vitro mammalian cell micronucleus test in vitro mammalian chromosome aberration test	with and without with and without		OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
phenol 108-95-2	positive	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
sodium chromate 7775-11-3	positive	in vitro mammalian chromosome aberration test	with and without		Chromosome Aberration Test

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
dichloromethane 75-09-2	NOAEL=6 mg/kg	oral: drinking water	104 wdaily	rat	OECD Guideline 453 (Combined Chronic Toxicity/ Carcinogenicity Studies)
phenol 108-95-2	NOAEL=71 mg/kg	oral: drinking water	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

SECTION 12. ECOLOGICAL INFORMATION

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

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
dichloromethane 75-09-2	LC50	193 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
dichloromethane 75-09-2	NOEC	83 mg/l	Fish	28 d	Pimephales promelas	other guideline:
dichloromethane 75-09-2	EC50	27 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
dichloromethane 75-09-2	EC50	> 660 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
dichloromethane 75-09-2	EC50	2,590 mg/l	Bacteria	40 min	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
phenol 108-95-2	LC50	8.9 mg/l	Fish	96 h	Oncorhynchus mykiss	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
phenol 108-95-2	NOEC	0.077 mg/l	Fish	60 d	Cirrhinus mrigala	OECD Guideline 215 (Fish, Juvenile Growth Test)
phenol 108-95-2	EC50	3.1 mg/l	Daphnia	48 h	Ceriodaphnia dubia	other guideline:
phenol 108-95-2	EC50	61.1 mg/l	Algae	96 h	Pseudokirchneriella subcapitata (reported as Selenastrum capricornutum)	other guideline:
phenol 108-95-2	EC50	766 mg/l	Bacteria	3 h	activated sludge, industrial	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Resin acids and Rosin acids, sodium salts 61790-51-0	LC50	5 - 10 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Resin acids and Rosin acids, sodium salts 61790-51-0	EC50	76 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Resin acids and Rosin acids, sodium salts 61790-51-0	EC50	18 - 20 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
dichloromethane 75-09-2	readily biodegradable	aerobic	68 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
phenol 108-95-2	readily biodegradable	aerobic	62 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Resin acids and Rosin acids, sodium salts 61790-51-0	readily biodegradable	aerobic	80 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
dichloromethane 75-09-2		2 - 40	42 d	Cyprinus carpio	25 °C	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
dichloromethane 75-09-2	1.25				20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
phenol 108-95-2		17.5	5 h	Danio rerio (reported as Brachydanio rerio)	25 °C	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
phenol 108-95-2	1.47				30 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Resin acids and Rosin acids, sodium salts 61790-51-0	2.65					not specified

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal of product: In consultation with the responsible local authority, must be subjected to special treatment. Dispose of in accordance with local and national regulations.

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

SECTION 14. TRANSPORT INFORMATION

Land Transport:

UN no.: 2927
 Proper shipping name: TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (Dichloromethane, Phenol)
 Class or division: 6.1 (8)
 Packing group: II
 Hazchem code: 2XE
Marine transport IMDG:

UN no.: 2927
 Proper shipping name: TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (Dichloromethane, Phenol)
 Class or division: 6.1 (8)
 Packing group: II
 EmS: F-A, S-B
 Seawater pollutant: -

Air transport IATA:

UN no.:	2927
Proper shipping name:	Toxic liquid, corrosive, organic, n.o.s. (Dichloromethane, Phenol)
Class or division:	6.1 (8)
Packing group:	II
Packing instructions (passenger)	653
Packing instructions (cargo)	660

SECTION 15. REGULATORY INFORMATION

New Zealand regulatory information:

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

HSNO Approval Number: Group standard HSR002627

NZIoC: Compliant for NZIOC

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms: STEL - Short term exposure limit
TWA - Time weighted average
HSNO - Hazardous Substances and New Organisms
LD 50: Lethal Dose 50%
LC 50: Lethal Concentration 50%
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association - Dangerous Goods Regulations

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 2, 15

Date of previous issue: 18.02.2016

Disclaimer:

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