



Safety Data Sheet

BONDERITE C-SO TURCOSOLV Q SOLVENT CLEANER
known as TURCO TURCOSOLV Q (20LT)

Page 1 of 12

MSDS-No. : 319718
V001.5

Date of issue: 11.11.2015

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: BONDERITE C-SO TURCOSOLV Q SOLVENT CLEANER known as TURCO TURCOSOLV Q (20LT)

Intended use: Solvent cleaner

Supplier:
Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Target organ</u>
Skin irritation	Category 2	
Serious eye irritation	Category 2A	
Germ cell mutagenicity	Category 2	
Carcinogenicity	Category 1B	
Target Organ Systemic Toxicant - Single exposure	Category 3	Central Nervous System
Target Organ Systemic Toxicant - Repeated exposure	Category 1	
Aspiration hazard	Category 1	
Chronic hazards to the aquatic environment	Category 3	

Hazard pictogram:



Signal word: Danger

Hazard statement(s):	H304 May be fatal if swallowed and enters airways. H341 Suspected of causing genetic defects. H350 May cause cancer. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H315 Causes skin irritation. H372 Causes damage to organs through prolonged or repeated exposure. H412 Harmful 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. P273 Avoid release to the environment. P280 Wear protective gloves, eye protection, and face protection.
Response:	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ 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 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P308+P313 IF exposed or concerned: Get medical advice/attention. P331 Do NOT induce vomiting. P362 Take off contaminated clothing.
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.

Classification of material T - Toxic Xn - Harmful Xi - Irritant N - Dangerous for the environment

Risk phrases:

R65 Also harmful: may cause lung damage if swallowed.
R68 Possible risk of irreversible effects.
R67 Vapours may cause drowsiness and dizziness.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36/38 Irritating to eyes and skin.
R45 May cause cancer.

Safety phrases:

S23 Do not breathe gas/fumes/vapour/spray.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27 Take off immediately all contaminated clothing.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53 Avoid exposure - obtain special instructions before use.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Dangerous Goods information:

Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Signal word:
HAZARDOUS

Section 3. Composition / information on ingredients

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	30- 60 %
Tetrachloroethylene	127-18-4	10- 30 %
Trichloroethylene	79-01-6	10- 30 %
Dichloromethane	75-09-2	< 10 %
Xylene - mixture of isomeres	1330-20-7	< 3 %
Mesitylene	108-67-8	< 3 %
2-Butoxyethanol	111-76-2	< 3 %
non hazardous ingredients~		< 10 %

Section 4. First aid measures

Ingestion:	Do not induce vomiting, seek medical advice immediately. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees.
Skin:	Remove contaminated clothing and footwear. Wash skin with water Seek medical advice.
Eyes:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.
Inhalation:	If inhaled, immediately remove the affected person to fresh air. Get medical attention.
First Aid facilities:	Eye wash and safety shower Normal washroom facilities
Most important symptoms caused by exposure:	Narcotic effects at higher concentrations.
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.

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Decomposition products in case of fire:: Thermal decomposition can lead to release of irritating gases and vapors.
Carbon monoxide.
Carbon dioxide.
Oxides of nitrogen.
Chlorine.

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: Cool endangered containers with water spray jet.
Collect contaminated fire fighting water separately. It must not enter drains.

Hazchem code: 2X

Section 6. Accidental release measures

Personal precautions: Remove sources of ignition.
Keep unprotected persons away.
Ensure adequate ventilation.
Avoid skin and eye contact.
Wear impervious gloves and chemical splash goggles.
See advice in section 8

Environmental precautions: Do not empty into drains / surface water / ground water.

Clean-up methods: Soak up with inert absorbent.
Sweep up or gather material and place in appropriate container for disposal.
Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Precautions for safe handling: Do not inhale vapors and fumes.
Use only in well-ventilated areas.
Avoid skin and eye contact.
Wear suitable protective clothing, gloves and eye/face protection.

Conditions for safe storage: Store only in the original container.
Isolate from incompatible substances.
Store in a cool, well-ventilated place.
Keep container tightly sealed.
Must be stored in the facility for the dangerous goods

Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
WHITE SPIRITS 64742-82-1			790	-	-	-	-
PERCHLOROETHYLENE 127-18-4		50	340	-	-	-	-
PERCHLOROETHYLENE 127-18-4		-	-	-	-	150	1,020
TRICHLOROETHYLENE 79-01-6		10	54	-	-	-	-
TRICHLOROETHYLENE 79-01-6		-	-	-	-	40	216
METHYLENE CHLORIDE 75-09-2		50	174	-	-	-	-
XYLENE (O-, M-, P- ISOMERS) 1330-20-7		80	350	-	-	-	-

XYLENE (O-, M-, P- ISOMERS) 1330-20-7	-	-	-	-	-	150	655
TRIMETHYL BENZENE 108-67-8	25	123	-	-	-	-	-
2-BUTOXYETHANOL 111-76-2	20	96.9	-	-	-	-	-
2-BUTOXYETHANOL 111-76-2	-	-	-	-	-	50	242

- 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.
- Eye protection:** Wear chemical goggles; face shield (if splashing is possible).
- Skin protection:** Viton gloves.
Suitable protective gloves.
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.
- General protection measures:** Use only in well-ventilated areas.

Section 9. Physical and chemical properties

- Appearance:** colourless
clear
- Odor:** of solvent
- Density:** 0.985 - 0.990 g/cm³
- Solubility in water:** Insoluble

Section 10. Stability and reactivity

- Stability:** Stable under normal conditions of temperature and pressure.
- Conditions to avoid:** Avoid temperatures above 38°C (100°F).

Incompatible materials:	Alkalis. Incompatible with oxidising agents. Nitric acid. Alkali metals. Powdered metals.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Oxides of nitrogen. Chlorine.

Section 11. Toxicological information

Health Effects:	
Ingestion:	May cause gastrointestinal tract irritation if swallowed. May cause blood disorders. Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.
Skin:	Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Eyes:	Causes serious eye irritation. Symptoms may include severe irritation, pain, tearing, blurred vision.
Inhalation:	May cause narcosis at high concentrations. Vapors may cause headaches, nausea, dizziness and respiratory tract irritation. Central nervous system effects.
Chronic effects:	
Trichloroethylene 79-01-6:	Irritation to the airways, inflammation to the skin, disturbances to the heart function and biotransformation processes; euphoric effects can cause addiction; mutagenic and carcinogenic potential (kidneys).
Dichloromethane 75-09-2:	The tumour risk cannot yet be evaluated conclusively, low tumour risk for the liver.
Xylene - mixture of isomeres 1330-20-7:	Unspecific central nervous disorders (e.g. headaches, insomnia), dyspepsia and vegetative dystonia.
Carcinogenicity:	Category 1B (Carcinogen), May cause cancer.
Mutagenicity:	Category 2 Mutagen., Suspected of causing genetic defects.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method		
Dichloromethane 75-09-2	LD50	2,120 mg/kg	oral	4 h	rat	OECD Guideline 402 (Acute Dermal Toxicity)		
	LD50	> 2,000 mg/kg	dermal		rat			
Xylene - mixture of isomeres 1330-20-7	LD50	3,523 - 8,700	oral		4 h		rat	OECD Guideline 401 (Acute Oral Toxicity)
	LC50	mg/kg	inhalation				rat	
Mesitylene 108-67-8	LD50	11 mg/l	oral				rat	
2-Butoxyethanol 111-76-2	LD50	5,000 mg/kg	oral				rat	
	LD50	1,746 mg/kg	oral	rabbit				
	LD50	2,000 mg/kg	dermal					

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Tetrachloroethylene 127-18-4	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Dichloromethane 75-09-2	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Xylene - mixture of isomeres 1330-20-7	moderately irritating		rabbit	
2-Butoxyethanol 111-76-2	irritating	4 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Dichloromethane 75-09-2	irritating		rabbit	
Xylene - mixture of isomeres 1330-20-7	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-Butoxyethanol 111-76-2	irritating	24 h	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 lymph node assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2-Butoxyethanol 111-76-2	not sensitising	Guinea pig maximisation 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	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Xylene - mixture of isomeres 1330-20-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		
2-Butoxyethanol 111-76-2	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
2-Butoxyethanol 111-76-2	NOAEL=0.121 mg/l	inhalation	42 or 90 days 6 hours/day, 5 days/week	rat	
2-Butoxyethanol 111-76-2	NOAEL=< 69 mg/kg	oral: drinking water	91 d continuous	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:** Harmful to aquatic life with long lasting effects.**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Tetrachloroethylene 127-18-4	LC50	18.4 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Tetrachloroethylene 127-18-4	EC50	22 mg/l	Daphnia	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
Tetrachloroethylene 127-18-4	EC50	> 816 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Tetrachloroethylene 127-18-4	EC10	51 mg/l	Bacteria	18 h		
Trichloroethylene 79-01-6	LC50	40.7 mg/l	Fish	96 h	Pimephales promelas	
Trichloroethylene 79-01-6	LC50	55 mg/l	Fish	14 d	Poecilia reticulata	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Trichloroethylene 79-01-6	NOEC	5.76 mg/l	Fish	28 d	Jordanella floridae	OECD 210 (fish early lite stage toxicity test)
Trichloroethylene 79-01-6	EC50	18 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Trichloroethylene 79-01-6	EC50	450 mg/l	Algae	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Trichloroethylene 79-01-6	EC10	300 mg/l	Algae	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Trichloroethylene 79-01-6	EC 50	260 mg/l	Bacteria			OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Dichloromethane 75-09-2	LC50	193 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dichloromethane 75-09-2	EC50	220 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: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dichloromethane 75-09-2	EC10	> 500 mg/l	Bacteria	16 h		
Xylene - mixture of isomers 1330-20-7	LC50	86 mg/l	Fish		Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Xylene - mixture of isomers 1330-20-7	EC50	3.1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Xylene - mixture of isomers 1330-20-7	EC50	> 1 - 10 mg/l	Algae		Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Xylene - mixture of isomers 1330-20-7	EC 50	> 1 - 10 mg/l	Bacteria			
Mesitylene 108-67-8	LC50	7.7 mg/l	Fish	192 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Mesitylene	EC50	3.6 mg/l	Daphnia	48 h	Daphnia sp.	OECD Guideline

108-67-8							202 (Daphnia sp. Acute Immobilisation Test)
2-Butoxyethanol 111-76-2	LC50	1,474 mg/l	Fish	96 h	Oncorhynchus mykiss		OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Butoxyethanol 111-76-2	NOEC	> 100 mg/l	Fish	21 d	Brachydanio rerio (new name: Danio rerio)		OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
2-Butoxyethanol 111-76-2	EC50	1,550 mg/l	Daphnia	48 h	Daphnia magna		OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Butoxyethanol 111-76-2	EC50	1,840 mg/l	Algae	72 h	Pseudokirchnerella subcapitata		OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Butoxyethanol 111-76-2	NOEC	286 mg/l	Algae	72 h	Pseudokirchnerella subcapitata		OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Butoxyethanol 111-76-2	EC0	1,000 mg/l	Bacteria	30 min			

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Tetrachloroethylene 127-18-4		aerobic	11 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Trichloroethylene 79-01-6		aerobic	4 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Trichloroethylene 79-01-6		aerobic	19 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Dichloromethane 75-09-2	inherently biodegradable	aerobic	5 - 26 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Xylene - mixture of isomers 1330-20-7	readily biodegradable	aerobic	> 60 %	OECD 301 A - F
2-Butoxyethanol 111-76-2	readily biodegradable	aerobic	73 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Tetrachloroethylene 127-18-4	2.53					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Trichloroethylene 79-01-6		17	28 d	Lepomis macrochirus	16 °C	
Trichloroethylene 79-01-6	2.29					
Dichloromethane 75-09-2	1.25					
Xylene - mixture of isomers 1330-20-7		8.5	7 d	Oncorhynchus mykiss		
Xylene - mixture of isomers 1330-20-7	3.12					
2-Butoxyethanol 111-76-2	0.81				25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Section 13. Disposal considerations

Waste disposal of product:	Collection and delivery to recycling enterprise or other registered elimination institution.
Recommended cleanser:	Suitable organic solvents
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**Road and Rail Transport:**

Dangerous Goods information:	Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).
UN no.:	2810
Proper shipping name:	TOXIC LIQUID, ORGANIC, N.O.S. (Tetrachloroethylene, Trichlorethylene)
Class or division:	6.1
Packing group:	III
Hazchem code:	2X
Emergency information:	Refer to the Dangerous Goods - Initial Emergency Response Guide HB 76.

Marine transport IMDG:

UN no.:	2810
Proper shipping name:	TOXIC LIQUID, ORGANIC, N.O.S. (Tetrachloroethylene, Trichlorethylene)
Class or division:	6.1
Packing group:	III
EmS:	F-A ,S-A
Seawater pollutant:	-

Air transport IATA:

UN no.:	2810
Proper shipping name:	Toxic liquid, organic, n.o.s. (Tetrachloroethylene, Trichlorethylene)
Class or division:	6.1
Packing group:	III
Packing instructions (passenger)	655
Packing instructions (cargo)	663

Section 15. Regulatory information**SUSMP Poisons Schedule**

6

AICS:

All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

Section 16. Other information

Abbreviations/acronyms:	ADGC - Australian Dangerous Goods Code IMDG: International Maritime Dangerous Goods code STEL - Short term exposure limit TWA - Time weighted average IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
Reason for issue:	Reviewed SDS. Reissued with new date. involved chapters: 1 - 16
Other information:	The product is intended for industrial use.
Date of previous issue:	27.07.2014
Disclaimer:	<p>The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel Australia Pty. Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel Australia Pty. Limited concerning the properties of the material. The information contained in the Safety Data Sheet is offered in good faith and has been developed from what is believed to be accurate and reliable sources. The information is offered without warranty, representation, inducement or licence and Henkel Australia Pty. Limited assumes no legal responsibility for reliance upon same. Henkel Australia Pty. Limited disclaims any liability for loss, injury or damage incurred in connection with the use of the material or its associated Safety Data Sheet. This information is not to be construed as a representation that the material is suitable for any particular purpose or use except those conditions and warranties implied by either Commonwealth or State statutes. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use.</p>