



MATERIAL SAFETY DATA SHEET

COSOL QD Thinners

Product code: QDThin01

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Name : COSOL QD Enamel	Code : QDThin01	Date Issued : 11/07/2011
Product use : Solvent	EC no. : Not applicable	
UN number : 1268	Hazchem : 3[Y]	
In emergency contact:	info@cosol.co.za, or	(016) 340 9564

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification:

Health

Acute inhalation toxicity	Hazard category 4.	Harmful if inhaled.	Warning
Acute oral toxicity	Hazard category 5	May be harmful if swallowed	Warning
Skin irritation	Hazard category 3	Causes mild skin irritation	Warning
Eye irritation	Hazard category 2B	Irritant	Warning
Aspirational hazard	Hazard category 2	May cause chemical pneumonitis	Warning

Environmental

Aquatic toxicity	Hazard category 2	Very toxic to fish, aquatic organisms and wildlife.	Warning
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Physical

Flammability	Hazard category 2	Highly flammable liquid and vapour	Warning
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Hazard Statements

Flammable liquid and vapour. May be harmful if swallowed or inhaled.

May cause eye and mild skin irritation.

Precautionary Statements

Response

IN CASE OF FIRE: Use carbon dioxide, foam or dry chemical for extinction.

IF INHALED: Call a POISON CENTRE or doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: get medical attention.

IF ON SKIN: If irritation occurs, get medical attention.

Storage

Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Use only non-sparking tools. Use explosion-proof electrical, venting and transfer equipment. Store in a well-ventilated place and keep the container cool and tightly closed.

Disposal

Do not discharge into lakes, streams, ponds and ground water supply.

See Section 11 for further health effects/toxicological data.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight%
Light Aliphatic Petroleum Solvent	64742-89-8	30
Toluene	108-88-3	30-70
Xylene	1330-20-7	30-70
n-Hexane	110-54-3	< 2.0
Benzene	Feb-43	< 0.1

See Section 8 for Exposure Limits (if applicable).

SECTION 4. FIRST AID MEASURES

Inhalation :	Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with mechanical device or use mouth-to-mouth resuscitation with a mouthpiece.
Skin contact :	Wash contact areas with soap and water. Remove contaminated clothing. Dry wipe exposed skin and cleanse with hand cleaner, soap and water. Launder contaminated clothing before reuse. (See Section 16 - Injection Injury)
Eye contact :	Flush thoroughly with water. If irritation occurs call a doctor.
Ingestion :	Seek immediate medical attention. Do not induce vomiting.
Note to doctors :	Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.

Extinguishing media :	Carbon dioxide, foam, dry chemical and water fog.
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Special fire fighting procedure :	Water spray should only be used to keep fire-exposed containers cool, flush spills away from exposures, disperse vapours and protect personnel attempting to stop leak. Prevent runoff from fire control role or don from entering streams, municipal sewers, or drinking water supply.
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Special protective equipment for firefighters	For fires in enclosed areas, fire fighters must use Self-Contained Breathing Apparatus.
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Unusual fire and explosive hazards :	Flammable.
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Products of decomposition :	Fumes, smoke and carbon monoxide.
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Flash Point :	< 0 °C (ASTM D-56)
Upper Explosion Limit (UEL) :	6.0 %(V)
Lower Explosion Limit (LEL) :	0.8 %(V)
NFPA Hazard Id :	Health: 0; Flammability: 2; Reactivity: 0

SECTION 6. ACCIDENTAL RELEASE MEASURES

Procedure if material is released or spilled :	Report spills/releases as required to appropriate authorities.
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Methods for cleaning up :	Absorb on fire-retardant treated sawdust, diatomaceous earth, etc. Shovel up with spark-resistant utensils for later disposal at an approved facility, in accordance with current laws and regulations.
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Personal precautions :	See Section 8.
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Environmental precautions :	Prevent spills from entering municipal sewers or drains and contact with soil.
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SECTION 7. HANDLING AND STORAGE
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Safe handling advice :	Avoid prolonged repeated skin contact.
Storage information :	Store away from all ignition sources in a cool, well-ventilated area. This product is a static accumulator, therefore, all storage containers should be grounded and bonded. Drums should also be equipped with self-closing valves, pressure vacuum bungs and flame arresters.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits (OELs)

Components	CAS-No.	Source	TWA	Value	Notations
Light Aliphatic Petroleum Solvent	64742-89-8	ACGIH TLV		525 mg/m ³ 100 ppm	
Toluene	108-88-3	ACGIH TLV	LTEL	188 mg/m ³ 50 ppm	Skin; A4; BEI Estimated
			STEL	560 mg/m ³ 150 ppm	
		OSHA PEL	LTEL	375 mg/m ³ 100 ppm	Skin Recommended Limit
			STEL	560 mg/m ³ 150 ppm	
			SA OEL	LTEL	
STEL	560 mg/m ³ 150 ppm				
Xylene	1330-20-7	ACGIH TLV	LTEL	434 mg/m ³ 100 ppm	A4; BEI
			STEL	651 mg/m ³ 150 ppm	
		OSHA PEL	LTEL	435 mg/m ³ 100 ppm	
			STEL	655 mg/m ³ 150 ppm	
n-Hexane	110-54-3	ACGIH TLV	LTEL	176 mg/m ³ 50 ppm	Skin; BEI
			STEL	528 mg/m ³ 150 ppm	
		EINECS	LTEL	70 mg/m ³ 20 ppm	

LTEL: Long Term Exposure Limits - Time Weight Average (TWA) over 8 hours.

STEL: Short Term Exposure Limits - Time Weight Average (TWA) over 15 Minutes

Note: Limits Shown for guidance only. Follow applicable regulations.

Personal Protective Equipment (PPE)

- Engineering controls : Use in well ventilated area. Explosive-proof ventilation equipment with local exhaust is desirable.
- Respiratory protection : Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the recommended exposure limit. Self-Contained Breathing Apparatus may be required for use in confined or enclosed spaces. Respirator with a vapour filter (EN 141) is recommended.
- Eye protection : Normal industrial eye protection practices should be employed.
- Skin and body protection : If prolonged or repeated skin contact is likely wear solvent-resistant gloves and clothing.
- Good personal hygiene practices should always be followed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid.
- Colour : Colourless
- Odour : Aromatic
- Solubility : Negligible
- Boiling point : > 80 °C
- Flash Point : < 0 °C (ASTM D-56)
- Upper Explosion Limit (UEL) : 6.0 % (V)
- Lower Explosion Limit (LEL) : 0.8 % (V)
- Vapour pressure : < 20 hPa
- Density : 0.8150 g/cm³ @ 20 °C (ASTM D-4052)
- Viscosity, kinematic: < 2 mm²/s @ 40 °C (ASTM D-445)

- Stability : Stable
- Conditions to avoid : Heat, sparks, flame and build up of static electricity.
- Materials to avoid : Strong oxidizers.
- Hazardous decomposition products : Fumes, smoke and carbon monoxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity :	(Rats): Practcally non-toxic (LD50: Greater than 2000 mg/kg). Based on testin of similar products and/or components. Warning Hazard category 5. Practicallynon-toxic, but when swallowed can cause lung damage.
Acute dermal toxicity :	(Rabbits): Practicallynon-toxic (LD50: greater than 2000 mg/kg). Based on testng of similar products and/or the components. Warning Hazard category 5. May be harmful in contact with skin.
Acute inhalati n toxicity :	(Rats): Harmful (LC50: greater than 10 but less than 20mg/l) 4 hours. Based on testng of similar products and/or the components. Warning Hazard category 4. Harmful if inhaled.
Skin irritaton :	(Rabbits): Mild irritant. (Primary IrritationIndex: greater than 0.5 but less than 3). Based on testin of similar products and/or the components. Warning Hazard category 3. Causes mild skin irritati n.
Eye irritaton :	(Rabbits): Mild irritant. (Draize score: greater than 6 but 15 or less). Based on testng of similar products and/or the components. Warning Hazard category 2B. Causes eye irritaton.
Respiratory and skin sensitiz aon:	This product was not a skin sensitier when tested in a Modified Buehler Guinea Pig Sensitiz atioAssay.
Germ cell mutagenicity :	This product tested negati e in a series of mutagenic tests.
Carcinogenicity :	Certain straight-run middle distillat s have been found to produce skin tumors in laboratory mouse skin-paintng tests, but these have usually been associated with a high level of skin irritation. aboratory tests have indicated that the irritaton can produce tumours. Therefore, if the precautons outlined in this SDS are followed to minimize repeated or prolonged skin contact which could cause irritati n, these oils should pose no carcinogenic hazard to humans.
Reproductive toxicity : (Teratogenicity)	Negatve in a series of geneec assays and teratological studies.
(STOT) - single exposure :	Specific target organ toxicity Respiratory irritaton, dizziness, nausea and loss of consciousness.
Specific target organ toxicity: (STOT) - repeated exposure	Prolonged repeated skin contact with low viscosity materials may defat the skin resultin in possible irritaatioand dermamatitis. Animudies with similar materials by inhalaton for 12 months showed no significant neurotoxic, blood, kidney or other effects.
Aspirati n hazard :	Material if aspirated into the lungs may cause chemical pneumoniti. Warning Hazard category 2.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish :	(Salmon) LC/EC50: 8.1 mg/l at 96 hours. Warning Hazard category 2.
Toxicity to aquatc organisms:	(Daphnia magna) LC/EC50: 6 mg/l at 48 hours. (Green algae) LC/EC50: 9.4 mg/l at 8 hours.

Eliminaton informaon (persistence and degradability)

Biodegradability :	Readily Biodegradable.
Mobility :	Water solubility: 500 mg/l @ 20 C.
Bioaccumulati n :	Bioconcentraton factor (BCF) < 100.

Further informati n on ecology

Remarks :	This environmental assessment is based on test data for this product (or estim ted data).
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SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal :	Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and considerations of product characteristics at time of disposal.
Contaminated packaging :	Empty containers retain residue (liquid and/or vapour) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.
Other regulations :	Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity, or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP).
Flash Point :	< 0 °C (ASTM D-56)

SECTION 14. TRANSPORT INFORMATION

ADR / CFR / IATA_C

Proper shipping name :	Flammable Liquid n.o.s. (CONTAINS LIGHT ALIPHATIC PETROLEUM SOLVENT)
UN number :	1268
Class :	3
Letter :	F
Packing group :	II
Labelling number :	3

IMDG

Proper shipping name :	Flammable Liquid n.o.s. (CONTAINS LIGHT ALIPHATIC PETROLEUM SOLVENT)
UN number :	1268
Class :	3
Letter :	F
Packing group :	II
Labelling number :	3
Marine pollutant :	Marine Pollutant
Medical First Aid Guide: (MFAG) table	311
Emergency Schedule (EmS) number	3-07 3271
IMDG code page number :	
Static Accumulator (50 picosiemens or less)	YES

SECTION 15. REGULATORY INFORMATION

US OSHA Hazard: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.

Communicati n Standard

Governmental Inventory: All components comply with TSCA, EINECS/ELINCS, AICS, METI, DSL, KECI, ENCS, PICCS and IECSC.

Status

EU Labelling : Product is dangerous as defined by the European Union Dangerous Substances/Preparatons Directes.

Symbols : F, Xn, Xi
Highly flammable, Harmful, Irritant

R-Phrase(s) : R20/22, R36/38, R52/53
Harmful by inhalationand if swallowed., Irritaang to eyes and skin., Harmful to aquatc organisms, may cause long-term adverse effects in the aquaticenvironment.

S-Phrase(s) : S36/37/39, S26, S62
Wear suitable protective clothing, gloves and eye/face prottecon., In case of contact with eyes, rinse immediately with plenty of water and seek medical advice., If swallowed, do not induce vomitin : seek medical advice immediately and show this container or label.

Note : Contains Low Viscosity Oil.

SARA

U.S. Superfund : This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

Amendments and Reauthorizati n Act SARA Title III

SARA (311/312) Reportable: Fire Chronic

Hazard Categories

SARA (313) Toxic Release: Benzene (71-43-2) - Conc < 0.1 %.

Chemicals

The following product ingredients are cited on the lists below

Chemical name	CAS-No.	Weight%	List Citati ns
Light Aliphatic Petroleum Solvent	64742-89-8	30	1, 18, 19, 20, 21, 23, 25
Toluene	108-88-3	30-70	1, 10, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26
Xylene	1330-20-7	30-70	1, 10, 18, 19, 20, 21, 22, 23, 24, 25, 26
n-Hexane	110-54-3	< 2.0	1, 10, 18, 19, 20, 21, 23, 25, 26
Benzine	Feb-43	< 0.1	1, 2, 4, 6, 9, 10, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26

Regulatory List Searched

1 = ACGIH ALL	6 = IARC 1	11 = TSCA 4	17 = CA P65	22 = MI 293
2 = ACGIH A1	7 = IARC 2A	12 = TSCA 5a2	18 = CA RTK	23 = MN RTK
3 = ACGIH A2	8 = IARC 2B	13 = TSCA 5e	19 = FL RTK	24 = NJ RTK
4 = NTP CARC	9 = OSHA CARC	14 = TSCA 6	20 = IL RTK	25 = PA RTK
5 = NTP SUS	10 = OSHA Z	15 = TSCA 12b	21 = LA RTK	26 = RI RTK

Code Key: CARC = Carcinogen; SUS = Suspected Carcinogen

SECTION 16. OTHER INFORMATION

Note: COSOL products do not contain PCBs.

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a doctor as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

For industrial use only. Not intended or suitable for use in or around a household or dwelling.

Note: No significant changes have been made to this Safety Data Sheet since the previous date.

Disclaimer:

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.



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quality coatings and solvents