

SAFETY DATA SHEET

1. Identification

1. Identification			
Product identifier	Liquid Wrench Dry Lubricant		
Other means of identification			
SDS number	L512		
Part No.	L512, L506		
Tariff code	2905.12.0050		
Recommended use	Dry Lubricant		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	RSC Chemical Solutions		
Address	600 Radiator Road		
	Indian Trail, NC 28079 United States		
Telephone	Customer Service:	(704) 821-764	43
	Technical:	(704) 684-18	
Website	www.rscbrands.com		
E-mail	sds@rscbrands.com		
Emergency phone number	Emergency Telephone: Emergency Contact:	(303) 623-571 RMPDC (877	
2. Hazard(s) identification			
Physical hazards	Flammable aerosols		Category 1
Health hazards	Skin corrosion/irritation		Category 2
	Serious eye damage/eye irritati	on	Category 2A
	Specific target organ toxicity, si	ngle exposure	Category 3 narcotic effects
	Aspiration hazard		Category 1
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
		>	
Signal word	Danger		
Hazard statement	Extremely flammable aerosol. N Causes serious eye irritation. N		wallowed and enters airways. Causes skin irritation. siness or dizziness.
Precautionary statement			
Prevention	flame or other ignition source. F	Pressurized cor horoughly after	surfaces No smoking. Do not spray on an open ntainer: Do not pierce or burn, even after use. Avoid r handling. Use only outdoors or in a well-ventilated ar protective gloves.
Response	with plenty of water. If inhaled: in eyes: Rinse cautiously with w	Remove person ater for severa	/doctor. Do NOT induce vomiting. If on skin: Wash n to fresh air and keep comfortable for breathing. If al minutes. Remove contact lenses, if present and

contaminated clothing and wash before reuse.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Isopropyl Alcohol		67-63-0	46.8
Propane		74-98-6	30
Heptane		142-82-5	21
Solvent Naphtha (petroleum), Medium Aliph.		64742-88-7	0.75
BENZENE, DIMETHYL		1330-20-7	0.04
Aluminium Oxide		1344-28-1	0.01
Other components below reportal	ble levels		1.4

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Alcohol resistant foam. Powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
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Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards Extremely flammable aerosol.

6. Accidental release measures

Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear
protective equipment and	appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do
emergency procedures	not touch damaged containers or spilled material unless wearing appropriate protective clothing.
0 11	Ventilate closed spaces before entering them. Local authorities should be advised if significant
	spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage,	Level 3 Aerosol.
including any incompatibilities	Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
BENZENE, DIMETHYL (CAS 1330-20-7)	PEL	435 mg/m3	
		100 ppm	
Heptane (CAS 142-82-5)	PEL	2000 mg/m3	
		500 ppm	
Isopropyl Alcohol (CAS 67-63-0)	PEL	980 mg/m3	
,		400 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
BENZENÉ, DIMETHYL (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Isopropyl Alcohol (CAS 67-63-0)	STEL	400 ppm	
,	TWA	200 ppm	
Solvent Naphtha (petroleum), Medium Aliph.	TWA	200 mg/m3	Non-aerosol.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Heptane (CAS 142-82-5)	Ceiling	1800 mg/m3	
		440 ppm	
	TWA	350 mg/m3	
		85 ppm	
Isopropyl Alcohol (CAS 67-63-0)	STEL	1225 mg/m3	
		500 ppm	
	TWA	980 mg/m3	
		400 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
,		1000 ppm	
Solvent Naphtha (petroleum), Medium Aliph. (CAS 64742-88-7)	TWA	100 mg/m3	
ogical limit values			
ACGIH Biological Exposure Indice	S		
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Components	Value	Determinant	Specimen	Sampling Time	
BENZENE, DIMETHYL (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*	
Isopropyl Alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*	

* - For sampling details, please see the source document.

Exposure guidelines

US ACGIH Threshold Limit Values: Skin designation

Solvent Naphtha (petroleum), Medium Aliph. (CAS Can be absorbed through the skin. 64742-88-7)

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields, goggles or full facepiece.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear appropriate chemical resistant clothing.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece. Chemical respirator with organic vapor cartridge and full facepiece if threshold limits are exceeded.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	Liquid
Physical state	Liquid.
Form	Aerosol.
Color	with White particles
Odor	Solvent.odor
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-305.68 °F (-187.6 °C) estimated
Initial boiling point and boiling range	-43.78 °F (-42.1 °C) estimated

Flash point	< 0 °F (< -17.8 °C) Tag Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	plosive limits
Flammability limit - lower (%)	2.4 % estimated
Flammability limit - upper (%)	12 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	2966.21 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	750.2 °F (399 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	6.34 lbs/gal
Explosive properties	Not explosive.
Flame extension	> 21 in
Flammability (flash back)	No
Flammability class	Flammable IA estimated
Heat of combustion (NFPA 30B)	34.95 kJ/g estimated
Oxidizing properties	Not oxidizing.
Percent volatile	46.84 % estimated
Specific gravity	0.76
VOC	97.8 % w/w
10 Stability and reactivity	

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidizing agents. Isocyanates. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity	May be fatal if swallowed	lay be fatal if swallowed and enters airways. Narcotic effects.	
Components	Species	Test Results	
BENZENE, DIMETHYL (CAS 133	0-20-7)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 43 g/kg	
Inhalation			
LC50	Mouse	3907 mg/l, 6 Hours	
	Rat	6350 mg/l, 4 Hours	
Oral			
LD50	Mouse	1590 mg/kg	
	Rat	3523 - 8600 mg/kg	
eptane (CAS 142-82-5)			
Acute			
Inhalation			
LC50	Rat	103 mg/l, 4 Hours	
LD50	Mouse	75 mg/l, 2 Hours	
opropyl Alcohol (CAS 67-63-0)			
Acute			
Dermal	-		
LD50	Rabbit	12800 mg/kg	
Oral	2	1707 /	
LD50	Dog	4797 mg/kg	
	Mouse	3600 mg/kg	
	Rabbit	5.03 g/kg	
	Rat	4.7 g/kg	
ropane (CAS 74-98-6)			
<u>Acute</u>			
Inhalation	5.4		
LC50	Rat	> 1442.847 mg/l, 15 Minutes	
* Estimates for product may t	be based on additional compo	onent data not shown.	
kin corrosion/irritation	Causes skin irritation.		
erious eye damage/eye	Causes serious eye irritati	on.	
ritation			
espiratory or skin sensitizatio	n		
Respiratory sensitization	Not a respiratory sensitize		
Skin sensitization		ed to cause skin sensitization.	
erm cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
IARC Monographs. Overall		-	
BENZENE, DIMETHYL (3 Not classifiable as to carcinogenicity to humans.	
OSHA Specifically Regulate	ed Substances (29 CFR 191	0.1001-1050)	
Not regulated. US. National Toxicology Pr	ogram (NTP) Poport on Ca	cinogens	
Not listed.	ogram (MTF) Report on Ca	Chickens	

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	May be fatal if swallowed and enters airways.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity

/	The product is not classified as environmentally hazardous. However, this does not exclude the
	possibility that large or frequent spills can have a harmful or damaging effect on the environment

ootoxiony		possibility that large or frequent spills can have a harmful or damaging effect on the environment.			
Components	Species		Test Results		
BENZENE, DIMETH	YL (CAS 1330-20-7))			
Aquatic					
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/l, 96 hours		
Heptane (CAS 142-8	2-5)				
Aquatic					
Fish	LC50	Mozambique tilapia (Tilapia mossambica)	375 mg/l, 96 hours		
Isopropyl Alcohol (CA	AS 67-63-0)				
Aquatic					
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours		

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-oo	ctanol / water (log Kow)	
BENZENE, DIMETHYL		3.12 - 3.2
Heptane		4.66
Isopropyl Alcohol		0.05
Propane		2.36
Mobility in soil	No data available.	

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

DOT

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UN number	Not available.
UN proper shipping name	Consumer Commodity
Transport hazard class(es)	
Class	ORM-D
Subsidiary risk	-

Packing group Not applicable. Special precautions for user Read safety instructions, SDS and emergency procedures before handling. **Special provisions** IB2, T4, TP1 4b, 150 Packaging exceptions Packaging non bulk 202 242 Packaging bulk ΙΑΤΑ UN1950 **UN number** Aerosol, flammable UN proper shipping name Transport hazard class(es) 2.1 Class Subsidiary risk Packing group Not applicable. **Environmental hazards** No. **ERG Code** 9L Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Other information Passenger and cargo Allowed with restrictions. aircraft Cargo aircraft only Allowed with restrictions. IMDG **UN number** UN1950 UN proper shipping name Aerosols Transport hazard class(es) Class 2.1 Subsidiary risk Packing group Not applicable. **Environmental hazards** Marine pollutant No. F-D, S-U EmS Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code





15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

BENZENE, DIMETHYL (CAS 1330-20-7)	Listed.	
Heptane (CAS 142-82-5)	Listed.	
Isopropyl Alcohol (CAS 67-63-0)	Listed.	
Propane (CAS 74-98-6)	Listed.	
ARA 304 Emergency release notification		

Not regulated.

SA

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yes Delayed Hazard - No	
Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazardous substance Not listed.	
SARA 311/312 Hazardous No chemical	
SARA 313 (TRI reporting) Chemical name CAS number % by wt.	
Isopropyl Alcohol 67-63-0 46.8	
Other federal regulations	
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List BENZENE, DIMETHYL (CAS 1330-20-7) Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Propane (CAS 74-98-6) Safe Drinking Water Act Not regulated. (SDWA)	
FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace	
Isopropyl Alcohol (CAS 67-63-0) Low priority	
US state regulations	
US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100	
Not listed.	
US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3,	ubd.
(a))	
BENZENE, DIMETHYL (CAS 1330-20-7) Isopropyl Alcohol (CAS 67-63-0)	
Solvent Naphtha (petroleum), Medium Aliph. (CAS 64742-88-7)	
US. Massachusetts RTK - Substance List	
Aluminium Oxide (CAS 1344-28-1)	
BENZENE, DIMETHYL (CAS 1330-20-7)	
Heptane (CAS 142-82-5) Isopropyl Alcohol (CAS 67-63-0)	
Propane (CAS 74-98-6)	
Solvent Naphtha (petroleum), Medium Aliph. (CAS 64742-88-7)	
US. New Jersey Worker and Community Right-to-Know Act	
Aluminium Oxide (CAS 1344-28-1) BENZENE, DIMETHYL (CAS 1330-20-7)	
Heptane (CAS 142-82-5)	
Isopropyl Alcohol (CAS 67-63-0)	
Propane (CAS 74-98-6) Solvent Naphtha (petroleum), Medium Aliph. (CAS 64742-88-7)	
US. Pennsylvania Worker and Community Right-to-Know Law	
Aluminium Oxide (CAS 1344-28-1)	
BENZENE, DIMETHYL (CAS 1330-20-7)	
Heptane (CAS 142-82-5)	
Isopropyl Alcohol (CAS 67-63-0) Propane (CAS 74-98-6)	
Solvent Naphtha (petroleum), Medium Aliph. (CAS 64742-88-7)	
US. Rhode Island RTK	
Aluminium Oxide (CAS 1344-28-1)	
BENZENE, DIMETHYL (CAS 1330-20-7) Isopropyl Alcohol (CAS 67-63-0)	
Propane (CAS 74-98-6)	

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

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Issue date	06-01-2015
Revision date	10-19-2016
Version #	06
HMIS® ratings	Health: 2 Flammability: 4 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 4 Instability: 0
NFPA ratings	
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.