



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 39271

### QUARTZ INEO MC3 5W-40

Date of the previous version: 2015-11-04

Revision Date: 2016-03-18

Version 4.01

#### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifier

<b>Product name</b>	<b>QUARTZ INEO MC3 5W-40</b>
<b>Number</b>	3T6
<b>Substance/mixture</b>	Mixture

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

<b>Identified uses</b>	Engine oil.
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##### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	TOTAL LUBRIFIANTS 562 Avenue du Parc de L'île 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71
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##### For further information, please contact:

<b>Contact Point</b>	HSE
<b>E-mail Address</b>	rm.msds-lubs@total.com

##### 1.4. Emergency telephone number

France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59  
 In France : - PARIS : Hôpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10 , Tel : 01.40.05.48.48. -  
 MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hopital Edouard  
 Herriot, 5 place d'Arsonvol, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. - NANCY : Hopital central, 29 Av du Mal De Lattre de  
 Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 ou le SAMU : Tel ( 15 )

#### Section 2: HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

##### **REGULATION (EC) No 1272/2008**

*For the full text of the H-Statements mentioned in this Section, see Section 2.2.*

##### **Classification**

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008  
 Serious eye damage/eye irritation - Category 2 - (H319)

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2.2. Label elements

Labelled according to

REGULATION (EC) No 1272/2008

**Signal Word**  
WARNING**Hazard Statements**

H319 - Causes serious eye irritation

**Precautionary Statements**

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention\*\*\*

2.3. Other hazards**Physical-Chemical Properties**

Contaminated surfaces will be extremely slippery.\*\*\*

**Environmental properties**

Should not be released into the environment.\*\*\*

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous ingredients**

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Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Reg. 1272/2008)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based***	276-738-4	01-2119474889-13	72623-87-1	30<40	Asp. Tox. 1 (H304)
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)***	298-577-9	01-2119543726-33	93819-94-4	1-<2.5	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)
bis(nonylphenyl)amine***	253-249-4	01-2119488911-28	36878-20-3	1-<2.5	Aquatic Chronic 4 (H413)

**Additional information**

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Section 4: FIRST AID MEASURES**

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### 4.1. Description of first-aid measures

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Eye contact</b>	Causes serious eye irritation.
<b>Skin contact</b>	Not classified.
<b>Inhalation</b>	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	Treat symptomatically.
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## Section 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO <sub>2</sub> ). ABC powder. Foam. Water spray or fog.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

<b>Special Hazard</b>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.
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### 5.3. Advice for fire-fighters

<b>Special protective equipment for fire-fighters</b>	Wear self-contained breathing apparatus and protective suit.
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### Other information

Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General Information

Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

### 6.2. Environmental precautions

#### General Information

Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

### 6.3. Methods and materials for containment and cleaning up

#### Methods for cleaning up

Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

#### Personal Protective Equipment

See Section 8 for more detail.

#### Waste treatment

See section 13.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### Advice on safe handling

When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

#### Prevention of fire and explosion

Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment.

#### Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands and face before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

### 7.2. Conditions for safe storage, including any incompatibilities

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### Technical measures/Storage conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

### Materials to Avoid

Strong oxidizing agents.

### 7.3. Specific end uses

### Specific use(s)

No information available.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

### Exposure limits

Mineral oil mist:  
USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined)

### Legend

See section 16

### DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based*** 72623-87-1				5.4 mg/m <sup>3</sup> /8h (aerosol - inhalation)
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*** 93819-94-4			0.58 mg/kg Dermal 8.31 mg/m <sup>3</sup> Inhalation	
bis(nonylphenyl)amine*** 36878-20-3			0.62 mg/kg bw/day Dermal 4.37 mg/m <sup>3</sup> Inhalation	

### DNEL Consumer

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based*** 72623-87-1				1.2 mg/m <sup>3</sup> /24h (aerosol - inhalation)

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zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*** 93819-94-4			0.29 mg/kg Dermal 2.11 mg/m³ Inhalation 0.24 mg/kg Oral	
bis(nonylphenyl)amine*** 36878-20-3			0.31 mg/kg bw/day Dermal 1.09 mg/m³ Inhalation 0.31 mg/kg bw/day Oral	

**Predicted No Effect Concentration (PNEC)**

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based*** 72623-87-1						9.33 mg/kg food
zinc bis[O-(6-methylhept yl)] bis[O-(sec-butyl)] bis(dithiophosphate) *** 93819-94-4	0.004 mg/l fw 0.0046 mg/l mw 0.021 mg/l or	0.0116 mg/kg dw fw 0.00116 mg/kg dw mw	0.00528 mg/kg soil dw		100 mg/l	10.67 mg/kg food
bis(nonylphenyl)ami ne*** 36878-20-3	0.1 mg/l fw 0.01 mg/l mw 1 mg/l or	132000 mg/kg dw fw 13200 mg/kg dw mw	263000 mg/kg dw		1 mg/l	

**8.2. Exposure controls****Occupational Exposure Controls****Engineering Measures**

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

**Personal Protective Equipment****General Information**

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

**Respiratory protection**

None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387): Type A/P2. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

**Eye Protection**

If splashes are likely to occur, wear: Safety glasses with side-shields.

**Skin and body protection**

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

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**Hand Protection**

Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.

**Environmental exposure controls****General Information**

The product should not be allowed to enter drains, water courses or the soil.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<b>Appearance</b>		limpid	
<b>Color</b>		yellow	
<b>Physical State @20°C</b>		liquid	
<b>Odor</b>		Characteristic	
<b>Odor Threshold</b>		No information available	
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
<b>pH</b>		Not applicable	
<b>Melting point/range</b>		No information available	
<b>Boiling point/boiling range</b>		No information available	
<b>Flash point</b>	> 220 °C > 428 °F		Cleveland Open Cup (COC) Cleveland Open Cup (COC)
<b>Evaporation rate</b>		No information available	
<b>Flammability Limits in Air</b>		No information available	
<b>upper</b>		No information available	
<b>Lower</b>		No information available	
<b>Vapor Pressure</b>		No information available	
<b>Vapor density</b>		No information available	
<b>Relative density</b>	0.85	@ 15 °C	
<b>Density</b>	850 kg/m³	@ 15 °C	
<b>Water solubility</b>		Insoluble	
<b>Solubility in other solvents</b>		No information available	
<b>logPow</b>		No information available	
<b>Autoignition temperature</b>		No information available	
<b>Decomposition temperature</b>		No information available	
<b>Viscosity, kinematic</b>	79.53 mm²/s 13.2 - 14.20 mm²/s	@ 40 °C @ 100 °C	ISO 3104 ISO 3104
<b>Explosive properties</b>	Not explosive		
<b>Oxidizing Properties</b>	Not applicable		
<b>Possibility of hazardous reactions</b>	No information available		

9.2. Other information

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**Freezing Point**

No information available

**Section 10: STABILITY AND REACTIVITY**10.1. Reactivity**General Information**

No information available.

10.2. Chemical stability**Stability**

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions**Hazardous Reactions**

None under normal processing.

10.4. Conditions to Avoid**Conditions to Avoid**

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

10.5. Incompatible Materials**Materials to Avoid**

Strong oxidizing agents.

10.6. Hazardous Decomposition Products**Hazardous Decomposition Products** None under normal use.**Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**Acute toxicity Local effects Product Information****Skin contact**

. Not classified.

**Eye contact**

. Causes serious eye irritation.

**Inhalation**

. Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Ingestion**

. Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Acute toxicity - Component Information**

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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based***	LD50 > 5000 mg/kg bw (rat - OECD 401)	LD50 > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5 mg/l (aerosol) (rat - OECD 403)
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)***	LD50 2600 mg/kg (Rat)	LD50 > 3160 mg/kg (Rabbit - OECD 402)	
bis(nonylphenyl)amine***	LD50 > 5000 mg/kg (Rat - OECD 401)	LD50 > 2000 mg/kg (Rat - OECD 402)	

**Sensitization****Sensitization** Not classified as a sensitizer.**Specific effects**

**Carcinogenicity** This product is not classified carcinogenic. During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

**Mutagenicity** This product is not classified as mutagenic.

**Reproductive toxicity** This product does not present any known or suspected reproductive hazards.

**Repeated Dose Toxicity****Subchronic toxicity** No information available.**Target Organ Effects (STOT)****Target Organ Effects (STOT)** No information available.**Other information****Other adverse effects** Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).**Section 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

Not classified.

**Acute aquatic toxicity - Product Information**

No information available.

**Acute aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
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Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based*** 72623-87-1	EL50 (48h) > 100 mg/l (Pseudokirchnerella subcapitata - OECD 201)	EL50 (48h) > 10000 mg/l (Daphnia magna - OECD 202) LL50 (24h) > 10000 mg/l (Gammarus pulex - OECD 202) LL50 (48h) > 10000 mg/l (Gammarus pulex - OECD 202) LL50 (72h) > 10000 mg/l (Gammarus pulex - OECD 202) LL50 (96h) > 10000 mg/l (Gammarus pulex - OECD 202)	LL50 (96h) > 100 mg/l (Oncorhynchus mykiss - OECD 203)	
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*** 93819-94-4	EbC50 (96h) 2.1 mg/l Selenastrum capricornutum (OECD 201)	EL50 (48h) 5.4 mg/l Daphnia magna (OECD 202)	LC50 (96h) 4.5 mg/l Oncorhynchus mykiss (OECD 203)	
bis(nonylphenyl)amine*** 36878-20-3	EC50 (72h) > 100 mg/l (Desmodesmus subspicatus - OECD 201)	EC50 (48h) > 100 mg/l (Daphnia magna - OECD 202)	LC50 (96h) > 100 mg/l (Brachydanio rerio - OECD 203)	

**Chronic aquatic toxicity - Product Information**

No information available.

**Chronic aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based*** 72623-87-1	NOEL (72h) >= 100 mg/l (Pseudokirchnerella subcapitata - OECD 201)	NOEL (21d) 10 mg/l (Daphnia magna - OECD 211)	NOEL (14/28d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox) NOEL (96h) > 100 mg/l (Pimephales promelas - OECD 203)	

**Effects on terrestrial organisms**

No information available.

**12.2. Persistence and degradability****General Information**

No information available.

**12.3. Bioaccumulative potential****Product Information** No information available.**logPow** No information available**Component Information**

Chemical Name	log Pow
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based*** - 72623-87-1	4.1

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zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*** - 93819-94-4	0.9
bis(nonylphenyl)amine*** - 36878-20-3	7.7

12.4. Mobility in soil

**Soil** Given its physical and chemical characteristics, the product generally shows low soil mobility.

**Air** Loss by evaporation is limited.

**Water** Insoluble. The product spreads on the surface of the water.

12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

12.6. Other adverse effects

**General Information** No information available.

## Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

**Waste from Residues / Unused Products** Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. After use, this oil must be sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the environment. Mixture with other waste types such as solvents, brake- and cooling liquids is forbidden.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

**EWC Waste Disposal No.** The following Waste Codes are only suggestions: 13 02 05. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## Section 14: TRANSPORT INFORMATION

ADR/RID Not regulated

IMDG/IMO Not regulated

ICAO/IATA Not regulated

ADN Not regulated

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## Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Further information

No information available

15.2. Chemical Safety Assessment**Chemical Safety Assessment** No information available

## Section 16: OTHER INFORMATION

**Full text of H-Statements referred to under sections 2 and 3**

H413 - May cause long lasting harmful effects to aquatic life

H315 - Causes skin irritation

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects

H304 - May be fatal if swallowed and enters airways

**Abbreviations, acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

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DNEL = Derived No Effect Level  
 PNEC = Predicted No Effect Concentration  
 dw = dry weight  
 fw = fresh water  
 mw = marine water  
 or = occasional release

**Legend** Section 8

TWA: Time Weight Average  
 STEL: Short Time Exposure Limit  
 PEL: Permissible exposure limit  
 REL: Recommended exposure limit  
 TLV: Threshold Limit Values

+	Sensitizer	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

Revision Date: 2016-03-18  
 Revision Note \*\*\* Indicates updated section.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet