

# SAFETY DATA SHEET



Propionaldehyde  
10640

Version / Revision  
Supersedes Version

6.02  
6.01\*\*\*

Revision Date  
Issuing date

10-Feb-2021  
10-Feb-2021

## SECTION 1: Identification

### 1.1. Product identifier

Identification of the  
substance/preparation

**Propionaldehyde**

CAS-No

123-38-6

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

Use of the Substance /  
Preparation

Intermediate

Uses advised against

None

### 1.3. Details of the supplier of the safety data sheet

Supplier

**OQ Chemicals Corporation**  
15375 Memorial Drive  
West Memorial Place I  
Suite 300  
Houston, TX 77079  
USA  
Phone +1 346 378 7300

Product Information

Product Stewardship  
FAX: +49 (0)208 693 2053  
email: sc.psq@oq.com

### 1.4. Emergency telephone number

Emergency telephone number

NCEC +1 202 464 2554  
available 24/7

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

This substance is classified in accordance with paragraph (d) of §1910.1200 (GHS-US classification).

Acute oral toxicity Category 4, H302

Acute inhalation toxicity Category 4, H332

Skin corrosion/irritation Category 2, H315

Serious eye damage/eye irritation Category 1, H318

Target Organ Systemic Toxicant - Single exposure Category 3, H335

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Flammable liquid Category 2, H225  
Environmental hazard Aquatic Acute 3; H402

**OSHA Specified Hazards** Not applicable.

## 2.2. Label elements

Labeling according to §1910.1200 (GHS-US labeling).

### Hazard symbol(s)



**Signal word**

**Danger**

**Hazard statements**

H225: Highly flammable liquid and vapor.  
H302: Harmful if swallowed.  
H332: Harmful if inhaled.  
H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H335: May cause respiratory irritation.  
H402: Harmful to aquatic life

**Precautionary statements**

**Prevention**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P240: Ground and bond container and receiving equipment.  
P241: Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242: Use non-sparking tools.  
P243: Take action to prevent static discharges.  
P261: Avoid breathing gas/mist/vapours.  
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/face protection.

**Response**

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER/doctor.  
P362 + P364: Take off contaminated clothing and wash it before reuse.

## Storage

P403 + P235: Store in a well ventilated place. Keep cool.  
P405: Store locked up.

## Disposal

P501: Dispose of contents/container in accordance with local regulation.

## 2.3. Other hazards

Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback  
Vapours may form explosive mixture with air  
Components of the product may be absorbed into the body by inhalation and ingestion

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Component	CAS-No	Concentration (%)
Propionaldehyde	123-38-6	> 98,5

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Keep at rest. Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

#### Skin

Wash off immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

#### Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Obtain medical attention.

#### Ingestion

Do not induce vomiting without medical advice. Call a physician immediately.

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

#### Main symptoms

shortness of breath, cough, central nervous system depression, hypertensive effect, narcosis, headache, nausea, vomiting, unconsciousness.

#### Special hazard

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Lung oedema, Lung irritation, Kidney disorders, Liver disorders.

## **4.3. Indication of any immediate medical attention and special treatment needed**

### **General advice**

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat symptomatically. In case of lung irritation, first treatment with cortisone spray.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water spray

#### **Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

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

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO<sub>2</sub>)

Combustion gases of organic materials must in principle be graded as inhalation poisons

Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback

Vapours may form explosive mixture with air

### **5.3. Advice for firefighters**

#### **Special protective equipment for firefighters**

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

#### **Precautions for firefighting**

Cool containers / tanks with water spray. Dike and collect water used to fight fire. Keep people away from and upwind of fire.

## **SECTION 6: Accidental release measures**

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

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.

For emergency responders: Personal protection see section 8.

### **6.2. Environmental precautions**

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Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

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

### Methods for containment

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

### Methods for cleaning up

Soak up with inert absorbent material. DO NOT use combustible materials such as sawdust. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

## 6.4. Reference to other sections

For personal protective equipment see section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms. Refill and handle product only in closed system. Do not use compressed air for filling, discharging or handling.

#### Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

#### Advice on the protection of the environment

See Section 8: Environmental exposure controls.

#### Incompatible products

acids and bases  
amines  
oxidizing agents

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

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material. Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback. Vapours may form explosive mixture with air. The pressure in sealed containers can increase under the influence of heat.

#### Technical measures/Storage conditions

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Handle under

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nitrogen, protect from moisture. Keep at temperatures between 9 and 38 °C (48 and 100 °F).

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

#### Exposure limits United States of America

##### US ACGIH

Component	TWA (mg/m <sup>3</sup> )	TWA (ppm)	STEL (mg/m <sup>3</sup> )	STEL (ppm)
Propionaldehyde CAS: 123-38-6		20		

##### Note

For details and further information please refer to the original regulation.

### 8.2. Exposure controls

#### Appropriate Engineering controls

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

#### Individual protection measures, such as personal protective equipment

##### General industrial hygiene practice

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

##### Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

##### Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

##### Hand protection

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

<b>Suitable material</b>	butyl-rubber
<b>Evaluation</b>	according to EN 374: level 5
<b>Glove thickness</b>	approx 0,3 mm
<b>Break through time</b>	approx 240 min

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**Suitable material** polyvinylchloride  
**Evaluation** Information derived from practical experience  
**Glove thickness** approx 0,8 mm

## Skin and body protection

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

## Respiratory protection

Respirator with filter for organic vapour. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (vapor or mist). Equipment should conform to NIOSH.

## Environmental exposure controls

If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance** liquid  
**Colour** colourless  
**Odour** pungent  
**Odour threshold** 1 ppm  
**pH** No data available  
**Melting point/range** <-130 °F (<-90 °C)  
**Method** DIN ISO 3016  
**Boiling point/range** 119,3 °F (48,5 °C) @ 1 atm (101,3 kPa)  
**Method** OECD 103  
**Flash point** -22 °F (-30 °C)  
**Method** DIN EN ISO 13736  
**Evaporation rate** No data available  
**Flammability (solid, gas)** Does not apply, the substance is a liquid  
**Lower explosion limit** 2,6 Vol %  
**Upper explosion limit** 17 Vol %

#### Vapour pressure

Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
364	36,4	0,359	20	68	DIN EN 13016-2
1096	109,6	1,08	50	122	DIN EN 13016-2

**Vapour density** 1,8 (Air = 1) @ 37,8 °C (100 °F)

#### Relative density

Values	@ °C	@ °F	Method
0,7969	20	68	DIN 51757

**Solubility** 254 g/l @ 68 °F (20 °C), in water

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log Pow	0,2 @ 25 °C (77 °F) OECD 117
Autoignition temperature	383 °F (195 °C) @ 1 atm (101,3 kPa)
Method	DIN 51794
Decomposition temperature	No data available
Viscosity	0,43 mm <sup>2</sup> /s @ 68 °F (20 °C)
Method	kinematic, OECD 114

## 9.2. Other information

Molecular weight	58,08
Molecular formula	C <sub>3</sub> H <sub>6</sub> O
log Koc	0,441 calculated
Oxidizing properties	Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties
Refractive Index	1,362 @ 68 °F (20 °C)
Explosive properties	Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties
Surface tension	71,5 mN/m (1 g/l @ 20°C (68°F))

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

### 10.2. Chemical stability

Stable under recommended storage conditions. Stable up to approximately 48 °C.

### 10.3. Possibility of hazardous reactions

Hazardous reactions occur in the presence of acids, base or oxidizing agents. This reaction is exothermic and may create heat. When finely distributed, self-ignition is possible. May form explosive peroxides.\*\*\*

### 10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

### 10.5. Incompatible materials

bases, amines, acids, oxidizing agents.

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information



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## 11.1. Information on toxicological effects

**Likely routes of exposure** Ingestion, Inhalation, Eye contact, Skin contact

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#### **Main symptoms**

shortness of breath, cough, central nervous system depression, hypertensive effect, narcosis, headache, nausea, vomiting, unconsciousness.

#### **Target Organ Systemic Toxicant - Single exposure**

The available data lead to the classification given in section 2

#### **Target Organ Systemic Toxicant - Repeated exposure**

Based on available data, the classification criteria are not met for:  
STOT RE

<b>Acute toxicity</b>				
<b>Propionaldehyde (123-38-6)</b>				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	1690 mg/kg	rat, female	OECD 401
Inhalative	LC50	> 4,6 mg/l (4h)	rat, male/female	OECD 403
Dermal	LD50	2460 mg/kg	rabbit female	OECD 402

### Propionaldehyde, CAS: 123-38-6

#### **Assessment**

The available data lead to the classification given in section 2

<b>Irritation and corrosion</b>				
<b>Propionaldehyde (123-38-6)</b>				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	irritating	OECD 404	
Eyes	rabbit	severe irritation	OECD 405	

### Propionaldehyde, CAS: 123-38-6

#### **Assessment**

The available data lead to the classification given in section 2

For respiratory irritation, no data are available

<b>Sensitization</b>				
<b>Propionaldehyde (123-38-6)</b>				
Target Organ Effects	Species	Evaluation	Method	
Skin	guinea pig	not sensitizing	OECD 406	
Skin	mouse female	not sensitizing	OECD 429	

### Propionaldehyde, CAS: 123-38-6

#### **Assessment**

Based on available data, the classification criteria are not met for:

Skin sensitization

For respiratory sensitization, no data are available

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<b>Subacute, subchronic and prolonged toxicity</b>					
<b>Propionaldehyde (123-38-6)</b>					
Type	Dose	Species	Method		
Subchronic toxicity	NOAEC: 362 mg/m <sup>3</sup> (49 d)	rat, male	OECD 422		Inhalation
Subacute toxicity	NOAEC: 217 mg/m <sup>3</sup> (20 d)	rat			

## **Propionaldehyde, CAS: 123-38-6**

### **Assessment**

Based on available data, the classification criteria are not met for:  
STOT RE

<b>Carcinogenicity, Mutagenicity, Reproductive toxicity</b>					
<b>Propionaldehyde (123-38-6)</b>					
Type	Dose	Species	Evaluation	Method	
Reproductive toxicity	NOEC > 3620 mg/m <sup>3</sup>	rat, parental		OECD 422	
Mutagenicity		Salmonella typhimurium	negative	OECD 471 (Ames)	In vitro study
Mutagenicity		mouse	negative	OECD 474	in vivo micronucleus test
Mutagenicity		human lymphocytes	negative	OECD 479 (SCE)	In vitro study
Mutagenicity		human hepatocytes	negative	OECD 482	In vitro study
Mutagenicity		CHED cells (chinese Hamster Embroonic Diploid)	positive	OECD 473 (Chromosomal Aberration)	In vitro study

## **Propionaldehyde, CAS: 123-38-6**

### **CMR Classification**

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

### **Evaluation**

Did not show mutagenic effects in animal experiments

## **Propionaldehyde, CAS: 123-38-6**

### **Aspiration toxicity**

no data available

### **Other adverse effects**

Components of the product may be absorbed into the body by inhalation and ingestion.

### **Note**

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:

<http://echa.europa.eu/information-on-chemicals/registered-substances>.

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## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Acute aquatic toxicity</b>			
<b>Propionaldehyde (123-38-6)</b>			
Species	Exposure time	Dose	Method
Daphnia magna (Water flea)	48h	EC50: 88,7 mg/l	84/449/EEC C.2
Pimephales promelas (fathead minnow)	96h	EC50: 14 mg/l	
Desmodesmus subspicatus	72h	EC50: 260 mg/l (Growth rate)	DIN 38412, part 9
Pseudomonas putida	14 h	TTC: 124 mg/l	DIN 38412, part 8
Fish (fresh water) Poecilia reticulata (guppy)	14 d	EC50: 15 mg/l	OECD 204

### 12.2. Persistence and degradability

**Propionaldehyde, CAS: 123-38-6**

#### Biodegradation

91 - 97 % (28 d), activated sludge, aerobic, OECD 301 C.

<b>Abiotic Degradation</b>		
<b>Propionaldehyde (123-38-6)</b>		
Type	Result	Method
Hydrolysis	No data available	
Photolysis	Half-life (DT50): 17,51 h	SRC AOP v1.92

### 12.3. Bioaccumulative potential

<b>Propionaldehyde (123-38-6)</b>		
Type	Result	Method
log Pow	0,2 @ 25 °C (77 °F)	OECD 117
BCF	3,162, (calculated)	

### 12.4. Mobility in soil

<b>Propionaldehyde (123-38-6)</b>		
Type	Result	Method
Adsorption/Desorption	log Koc: 0,441	calculated
Surface tension	71,5 mN/m (1 g/l @ 20°C (68°F))	
Distribution to environmental compartments	Air: 4,52 Soil: 47,7 Water: 47,7 Sediment: 0,09	

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## 12.5. Results of PBT and vPvB assessment

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PBT and vPvB assessment

Not required

## 12.6. Other adverse effects

Propionaldehyde, CAS: 123-38-6

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Product Information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

#### Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

## SECTION 14: Transport information

### D.O.T. (49CFR)

14.1. UN number	UN 1275
14.2. UN proper shipping name	Propionaldehyde
14.3. Transport hazard class(es)	3
14.4. Packing group	II
14.5. Environmental hazards	no
14.6. Special precautions for user	
Reportable Quantity (RQ)	1000 lb/ 454 kg (Propionaldehyde)
Emergency Response Guide	129

### ICAO-TI / IATA-DGR

14.1. UN number	UN 1275
14.2. UN proper shipping name	Propionaldehyde
14.3. Transport hazard class(es)	3
14.4. Packing group	II

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14.5. Environmental hazards no  
14.6. Special precautions for user no data available

## IMDG

14.1. UN number UN 1275  
14.2. UN proper shipping name Propionaldehyde  
14.3. Transport hazard class(es) 3  
14.4. Packing group II  
14.5. Environmental hazards no  
14.6. Special precautions for user  
EmS F-E, S-D

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Product name Propionaldehyde  
Ship type 3  
Pollution category Y

## SECTION 15: Regulatory information

### Federal and State Regulations

Components of the product are listed in the quoted regulations. For details please refer to the regulations directly. This list is not exhaustive, please check for other applicable regulations.

#### Federal Regulations

This product is listed on the TSCA inventory

#### Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Component	CAS-No	Concentration (%)
Propionaldehyde	123-38-6	> 98,5

This information must be included in all SDSs that are copied and distributed for this material.

#### Propionaldehyde, CAS: 123-38-6

40CFR 63.100-.106, Table 2

40CFR 63.100-.106, Table 1: Group IV

CERCLA Hazardous Substance

CERCLA RQ 1000 LBS

EPCRA SARA Title III 313

de minimis concentration 1.0 %

#### State Regulations

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## **Propionaldehyde, CAS: 123-38-6**

IL Chemical Safety Act  
MA Hazardous Substances List  
MA RTK List  
NJ RTK List  
NY RTK List  
PA RTK List  
RI RTK List

## **International Inventories**

## **Propionaldehyde, CAS: 123-38-6**

AICS (AU)  
DSL (CA)  
IECSC (CN)  
EC-No. 2046230 (EU)  
ENCS (2)-486 (JP)  
ISHL (2)-486 (JP)  
KECI KE-29254 (KR)  
INSQ (MX)  
PICCS (PH)  
TSCA (US)  
NZIoC (NZ)  
TCSI (TW)

## **SECTION 16: Other information**

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## **Hazard Rating Systems**

### **NFPA (National Fire Protection Association)**

Health Hazard	2
Fire Hazard	3
Reactivity	2

### **HMIS (Hazardous Material Information System)**

Health Hazard	2
Flammability	3
Physical Hazard	2

## **Training advice**

For effective first-aid, special training / education is needed.

## **Sources of key data used to compile the datasheet**

Information contained in this safety data sheet is based on OQ owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

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## Further information for the safety data sheet

Changes against the previous version are marked by \*\*\*. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the OQ homepage ([www.chemicals.oq.com](http://www.chemicals.oq.com)).

The use of a comma in section 3 and section 7 to 12 is the same as a period.

## Disclaimer

**For industrial use only.** The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. OQ makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

**End of Safety Data Sheet**