



**QubicaAMF Worldwide, LLC.**  
**Product: Conditioner,**  
**Less Surfactant Conditioner,**  
**Improved Reactor Conditioner**

**Safety Data Sheet**

according to Regulation (EC) No. 453/2010

**Date of Issue: 07/08/2008**

**Revision Date: 20/06/2013**

**Revision 2.0**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product form : Mixture  
Product name. : Conditioner, Less Surfactant Conditioner, Improved Reactor Conditioner  
Product code : 294006049, 294006050, 294006051, 294006064, 294006065, 294006061, 294006074, 294006075, 294007071  
Product group : Trade product

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

**1.2.1. Relevant identified uses**

Use of the substance/preparation : Surfactant/lubricant

**1.2.2. Uses advised against**

No additional information available

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

QubicaAMF Worldwide, LLC.  
8100 AMF Drive  
Mechanicsville, Virginia 23111  
U.S.A.  
+1-804-569-1000

**1.4. Emergency telephone number**

Emergency number : INFOTRAC @: +1 (800) 535-5053  
Outside USA call collect: +1 (352) 323-3500 24hr/day 7 day/week

+1 (800) 535-5053

**SECTION 2: Hazards identification**

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

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Muta. 1B H340  
Carc. 1B H350

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Carc.Cat.2; R45  
Muta.Cat.2; R46

Full text of R-phrases: see section 16

**Adverse physicochemical, human health and environmental effects**

May cause slight eye, skin and respiratory system irritation. May cause genetic defects. May cause cancer.

**2.2. Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Danger  
Hazardous ingredients : Stoddard Solvent  
Hazard statements (CLP) : H340 - May cause genetic defects  
H350 - May cause cancer  
Precautionary statements (CLP) : P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P281 - Use personal protective equipment as required  
P308+P313 - IF exposed or concerned: Get medical advice/attention  
P405 - Store locked up  
P501 - Dispose of contents/container in accordance with local and national regulations.

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### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

Other hazards not contributing to the classification : Repeated or prolonged skin contact may cause dermatitis and defatting.  
High concentration of vapours may induce: headache, nausea, dizziness.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
White mineral oil (petroleum)	(CAS No.) 8042-47-5 (EC no) 232-455-8	79 - 82	Not classified	Not classified
Isopropyl Alcohol	(CAS No.) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0	1 - 1.5	F; R11 Xi; R36 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Stoddard Solvent	(CAS No.) 8052-41-3 (EC no) 232-489-3 (EC index no) 649-345-00-4	1 - 1.5	Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65	Flam. Liq. 3, H226 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
Nonylphenol, ethoxylated	(CAS No.) 9016-45-9 (EC no) 500-024-6	< 1	Xi; R36/38 R52/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411

Full text of R-, H- and EUH-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Gently wash with plenty of soap and water. Remove contaminated clothing and shoes. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. To prevent aspiration, keep head below knees.

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

Symptoms/injuries after inhalation : Inhalation may cause: irritation, coughing, shortness of breath.

Symptoms/injuries after skin contact : Repeated or prolonged contact may cause skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

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

All treatments should be based on observed signs and symptoms of distress in the patient.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2), powder, alcohol-resistant foam, water fog.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Explosion hazard : Product is not explosive.

Reactivity : Normally stable, even under fire exposure conditions, and not reactive with water. No dangerous reactions known.

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. All extinguishing media can be used.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment. Wear a self contained breathing apparatus. Wear fire/flammable resistant/retardant clothing. EN469.

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### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

- Protective equipment : Stop leak without risks if possible. Avoid all eyes and skin contact and do not breathe vapour and mist. Wear suitable gloves: nitrile or neoprene gloves.
- Emergency procedures : Avoid all unnecessary exposure. Stop leak without risks if possible. Take up small spills with dry chemical absorbent.

##### 6.1.2. For emergency responders

- Protective equipment : Avoid all eyes and skin contact and do not breathe vapour and mist. Use eye protection to EN 166, designed to protect against liquid splashes. Equip cleanup crew with proper protection. Wear suitable gloves: Neoprene or nitrile rubber gloves.
- Emergency procedures : Collect as much as possible in a clean container for (preferable) reuse or disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Impound and recover large spill by mixing it with inert granular solids.

#### 6.2. Environmental precautions

Do not allow large quantities to spread into the environment. Do not discharge into drains or rivers.

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

- For containment : Do not allow minor leaks or spills to accumulate on walking surfaces. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Impound and recover large spill by mixing it with inert granular solids.

#### 6.4. Reference to other sections

Section 7: safe handling.  
Section 8: personal protective equipment.  
Section 13: disposal information.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Handle in a well-ventilated area. Do not spray on an open flame or other ignition source. Emptied container retains vapor and product residue.
- Hygiene measures : Always wash your hands immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

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

- Storage conditions : Store in a dry, cool and well-ventilated place. Store in original container.
- Incompatible materials : Oxidizing agents, alkanolamines, caustics, amines.
- Prohibitions on mixed storage : Keep away from incompatible materials.

#### 7.3. Specific end use(s)

Maintenance lubricant.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Isopropyl Alcohol (67-63-0)		
Austria	MAK (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Austria	MAK (ppm)	200 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	2000 mg/m <sup>3</sup> max. 4x15 min./Schicht
Austria	MAK Short time value (ppm)	800 ppm max. 4x15 min./Schicht
Belgium	Limit value (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	400 ppm
France	VLE (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
France	VLE (ppm)	400 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm
Germany	TRGS 903 (BGW)	50 mg/l Aceton (Blut; Expositionsende bzw. Schichtende)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	490 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	960 mg/m <sup>3</sup>

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Isopropyl Alcohol (67-63-0)		
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	400 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	400 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	1225 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup> VLB, s
Spain	VLA-ED (ppm)	200 ppm VLB, s 40 ppm F, I "(Acetona en orina; Final de la semana, laboral 1)"
Spain	VLA-EC (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup> VLB, s
Spain	VLA-EC (ppm)	400 ppm VLB, s
Switzerland	VLE (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup> max. 4x15 min./turno
Switzerland	VLE (ppm)	400 ppm max. 4x15 min./turno
Switzerland	VME (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Switzerland	VME (ppm)	200 ppm 25 ppm acetone (urina; fine dell'esposizione / del turno) 25 ppm acetone (sangue; fine dell'esposizione / del turno)
The Netherlands	MAC TGG 8H (mg/m <sup>3</sup> )	650 mg/m <sup>3</sup>
The Netherlands	MAC TGG 8H (ppm)	250 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	999 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1250 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	500 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	203.5 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	407 ppm
Czech Republic	Remark (CZ)	I
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	490 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	200 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	400 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	200 ppm
Finland	HTP-arvo (15 min)	620 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	250 ppm
Hungary	AK-érték	500 mg/m <sup>3</sup>
Hungary	CK-érték	2000 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (ppm)	400 ppm
Ireland	Notes (IE)	Sk
Lithuania	IPRV (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	150 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	250 ppm
Norway	Gjennomsnittsverdier (AN) (mg/m <sup>3</sup> )	245 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (AN) (ppm)	100 ppm
Poland	NDS (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>

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Isopropyl Alcohol (67-63-0)		
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	200 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	250 ppm
Canada (Quebec)	VECD (mg/m <sup>3</sup> )	1230 mg/m <sup>3</sup>
Canada (Quebec)	VECD (ppm)	500 ppm
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	983 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (ppm)	400 ppm
Australia	TWA (mg/m <sup>3</sup> )	999 mg/m <sup>3</sup>
Australia	TWA (ppm)	400 ppm
Australia	STEL (mg/m <sup>3</sup> )	1250 mg/m <sup>3</sup>
Australia	STEL (ppm)	500 ppm

Stoddard Solvent (8052-41-3)		
Belgium	Limit value (mg/m <sup>3</sup> )	533 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	100 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	572 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2900 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	500 ppm
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	145 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	25 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	290 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	50 ppm
Denmark	Anmærkninger (DK)	(Terpentin, mineralsk, max. 20 pct. aromater; 2)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	573 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	100 ppm
Poland	NDS (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	525 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (ppm)	100 ppm

### 8.2. Exposure controls

- Hand protection : Wear suitable gloves: neoprene or nitrile rubber gloves. EN 374.
- Eye protection : Safety glasses. Use splash goggles when eye contact due to splashing is possible. EN166.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. If needed, use an air-purifying respirator with organic vapour cartridges and an oil/mist pre-filter. EN12083

## SECTION 9: Physical and chemical properties

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

- Physical state : Liquid
- Appearance : Clear liquid.
- Colour : Colourless
- Odour : Characteristic.
- Odour threshold : No data available
- pH : Not applicable
- Relative evaporation rate (butylacetate=1) : > 1
- Melting point : Not determined
- Freezing point : Not determined
- Boiling point : Not determined

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Flash point	: > 93.3 °C
Self ignition temperature	: Not determined
Decomposition temperature	: Not determined
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not determined
Relative vapour density at 20 °C	: Not determined
Relative density	: 0.8551
Solubility	: insoluble in water.
Log Pow	: Not determined
Log Kow	: Not determined
Viscosity, kinematic	: Not determined
Viscosity, dynamic	: Not determined
Explosive properties	: Not explosive
Oxidising properties	: No oxidising properties
Explosive limits	: Not applicable

### 9.2. Other information

VOC content : <1 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Normally stable, even under fire exposure conditions, and not reactive with water. No dangerous reactions known.

### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Avoid contact with incompatible materials, excessive heat or cold.

### 10.5. Incompatible materials

Oxidizing agent. alkanolamines. caustics. amines.

### 10.6. Hazardous decomposition products

Carbon oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified. (Based on available data, the classification criteria are not met)

White mineral oil (petroleum) (8042-47-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h

  

Isopropyl Alcohol (67-63-0)	
LD50 oral rat	5840 mg/kg
LD50 dermal rabbit	16.4 ml/kg
LC50 inhalation rat (ppm)	> 10000 ppm/4h
ATE (oral)	5840 mg/kg

  

Stoddard Solvent (8052-41-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 10 mg/l/4h

  

Nonylphenol, ethoxylated (9016-45-9)	
LD50 oral rat	4290 mg/kg mouse
ATE (oral)	4290 mg/kg

Skin corrosion/irritation	: Not classified. (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified. (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: Not classified. (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: May cause genetic defects.

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Carcinogenicity : May cause cancer.

White mineral oil (petroleum) (8042-47-5)	
NOAEL (chronic,oral, animal/male,2 years)	> 1200 mg/kg bodyweight No carcinogenic potential observed.
Additional information	Chronic dermal: mouse: Lack of significant effects. Chronic inhalation to various animal species at 5 and 100 mg/m <sup>3</sup> doses: no adverse effects.

Reproductive toxicity : Not classified. (Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : Not classified. (Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated exposure) : Not classified. (Based on available data, the classification criteria are not met)

White mineral oil (petroleum) (8042-47-5)	
NOAEL (subacute,oral, animal/male,28 days)	> 1500 mg/kg bodyweight (dog)

Aspiration hazard : Not classified. (Based on available data, the classification criteria are not met)

### SECTION 12: Ecological information

#### 12.1. Toxicity

White mineral oil (petroleum) (8042-47-5)	
LC50 fish 1	3841 mg/l Oncorhynchus mykiss

Nonylphenol, ethoxylated (9016-45-9)	
EC50 Daphnia 1	1.821 mg/l

#### 12.2. Persistence and degradability

Nonylphenol, ethoxylated (9016-45-9)	
Persistence and degradability	Readily biodegradable.

#### 12.3. Bioaccumulative potential

Nonylphenol, ethoxylated (9016-45-9)	
Log Pow	3.7 estimated
Bioaccumulative potential	Not expected to bioaccumulate.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

Adoucissant, adoucissant moins tensio-actif, adoucissant réactif amélioré (Eng names?)	
This substance/mixture does not meet the PBT criteria of REACH, annex XIII.	
This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.	

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

No additional information available

### SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

#### 14.1. UN number

No considered a dangerous good for transport regulations.

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available.

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### 14.6. Special precautions for user

#### 14.6.1. Overland transport

No additional information available

#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

#### 15.1.2. National regulations

Substances in the mixture appear in the following national inventory lists:

Component	EU - EINECS	Canada DSL	US - TSCA
White mineral oil	232-455-8	listed	listed
Isopropyl alcohol	200-661-7	listed	listed
Stoddard solvent	232-489-3	listed	listed
Nonylphenol, ethoxylated	500-024-6	listed	listed

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Indication of changes:

GHS classification information. Revised format. Revised sections: 1 - 16.

Data sources

: Chemical Inspection & Regulation Service; accessed at: [http://www.cirs-reach.com/Inventory/Global\\_Chemical\\_Inventories.html](http://www.cirs-reach.com/Inventory/Global_Chemical_Inventories.html)

ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>

European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

European Standards: Personal Protective Equipment; accessed at: [http://ec.europa.eu/enterprise/policies/european-standards/harmonised-standards/personal-protective-equipment/index\\_en.htm](http://ec.europa.eu/enterprise/policies/european-standards/harmonised-standards/personal-protective-equipment/index_en.htm)

International Programme on Chemical Safety (INCHEM); accessed at: <http://www.inchem.org/documents/icsc/icsc/eics0361.htm>

Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>

US National Library of Medicine TOXNET Toxicology Data Network

Abbreviations and acronyms

: CAS (Chemical Abstracts Service) number.  
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals)  
PBT: Persistent, Bioaccumulative, Toxic .  
TSCA: Toxic Substances Control Act.

Training advice

: Normal use of this product shall imply use in accordance with the instructions on the packaging.



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Full text of R-, H- and EUH-phrases:

Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1B	Carcinogenicity Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Muta. 1B	Germ cell mutagenicity Category 1B
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H411	Toxic to aquatic life with long lasting effects
R11	Highly flammable.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R45	May cause cancer.
R46	May cause heritable genetic damage.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.
F	Highly flammable
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*