



**PETRON  
PLUS™  
FORMULA 7**



Conforms to OSHA HCS 2012 (29 CFR 1910.1200)

## SAFETY DATA SHEET

# PETRON PLUS™ DIESEL ENGINE CONDITIONER

Part No. 12122-12oz, 12122-1g, 12122-5g, 12122-54g, 12122-275g, 12122-330-g

### SECTION 1. PREPARATION INFORMATION

<b>Date</b>	:	March 18, 2015
<b>GHS Product identifier</b>	:	Petron Plus Diesel Engine Conditioner MSDS ID: 12122-12oz, 12122-1g, 12122-5g, 12122-54g, 12122-275g 12122-330g
<b>Code</b>	:	Lubricant and Supplement.
<b>CAS Number</b>	:	Not Applicable for mixtures.
<b>Synonyms</b>	:	None.
<b>Generic Chemical Name</b>	:	Mixture.
<b>Applications include the Following</b>	:	Diesel Engines Oil Supplement, 12oz. to 4 to 6 quarts of diesel engine oil. Do Not use in gasoline engines.
<b>Manufactured by</b>	:	PETRON PLUS GLOBAL, INC. P. O. BOX 1906 208 East 2nd HUTCHINSON, KS. 67504-1906 USA
<b>Contact Information</b>	:	620/663-1800 - Phone info@petronplus7.com Emergency Health and Safety Number: CHEMTREC: 800.424.9300 (24 Hours) International: +1-703-527-3887

**SECTION 2. HAZARDOUS IDENTIFICATION**

**Hazard Classification**

**Health hazards** : Skin sensitizer: Category 1  
 Reproductive toxicity Effects on or via lactation  
 Acute toxicity (Oral) Category 4  
 Specific Target Organ Toxicity Category 2  
 Repeated Exposure

**Environmental hazards** : Hazardous to the aquatic environment, acute hazard Category 3  
 Hazardous to the aquatic environment, long-term hazard Category 1

**OSHA Defined hazards** : Not classified.

**Classification of the substance or mixture** : Not Classified.

**Label elements** :



**Signal Word** : Danger.

**Hazard statement** : May cause allergic skin reaction.  
 May be fatal if swallowed and enter airways.  
 May cause harm to breast-fed children.  
 Harmful to aquatic life.  
 Very toxic to aquatic life with long lasting effects.  
 Harmful if swallowed.  
 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

**Prevention** : Do not breathe dust/fume/gas/mist/vapors/spray.  
 Do not handle until all safety precautions have been read and understood.  
 Avoid contact during pregnancy/while nursing.  
 Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Avoid contact with eyes.  
 Avoid release to the environment.  
 Observe good industrial hygiene practices.

**Response** : IF SWALLOWED: Call a POISON CENTER or doctor/physician. Do NOT induce vomiting. If exposed or concerned: Get medical advice/attention.  
 Wash thoroughly after handling.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**SECTION 2. HAZARDOUS IDENTIFICATION, Cont.**

Precautionary statements, Cont.

- Storage** : Store in well-ventilated place. Keep container tightly closed.
- Disposal** : Disposal of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Hazards not otherwise classified** : None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

- Substance/mixture** : Mixture.
- Other means of identification** : Not applicable.
- CAS Number/other identifiers**
- CAS number** : Not applicable.
- Product code** : 12122-12oz, 12122-1g, 12122-5g, 12122-54g, 12122-275g, 12122-330g

CHEMICAL NAME	CAS # or	% RANGE
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	20 - 70 %
Proprietary Ingredient	Mixture	20 - 40 % Mixture
Proprietary Ingredients	Mixture	5 - 25 % Mixture
Highly refined mineral oil (C15-C50)	Mixture	5 - 25 %
01154100-5284P	Trade secret	1 - 10 %
Zinc alkyl dithiophosphate	68649-42-3	0.5 - 2 %
01154100-5301P	Trade secret	0.5 - 1.5 %
01154100-5031P	Trade secret	0.25 - 1.5 %
Branch alkylphenol and Calcium branched alkylphenol	74499-35-7 & 132752-19-3	0.1 - 0.9 %
Highly refined mineral oil (C15 - C50)	Mixture	1 - 10 %
01154100-5165P	Trade secret	0.05 - 2%
Highly refined mineral oil (C15 - C50)	Mixture	1 - 10 %
Calcium branched chain alkyl phenate sulfide	Mixture	0.5 - 5 %
Fatty acids, Tall-Oils, Esters with Neopentyl Glycol	68002-76-6	1 - 8 %

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## **SECTION 4. FIRST AID MEASURES**

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water (for 30 minutes), occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Launder contaminated clothing before reuse. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. **Do NOT INDUCE VOMITING** unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye Contact** : Direct contact with eyes may cause temporary irritation.
- Inhalation** : May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of mist at airborne levels above recommended mineral oil exposure limit.
- Skin contact** : If material is heated, thermal burns may result from skin contact.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye Contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

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

- Note to physician** : Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.
- Special treatment** : No special treatment.
- Protection of first-aiders** : No special protection is needed.

See toxicological information (Section 11).

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## **SECTION 5. FIRE-FIGHTING MEASURES**

### NFPA 704 Hazard Class

Health: 1 Flammability: 1 Instability: 0



0 (Minimal)  
1 (Slight)  
2 (Moderate)  
3 (Serious)  
4 (Severe)

### Extinguishing media

**Suitable extinguishing media** : Water fog, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** : Do not use water jet as an extinguisher, as this will spread the fire.

### Extinguishing media, Cont.

**Specific hazards arising from the chemical** : During fire, gases hazardous to health may be formed.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, and other products of incomplete combustion.

**Special protective actions for fire-fighters** : Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode. Move containers from fire area if you can do so without risk.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on the suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## SECTION 6. ACCIDENTAL RELEASE MEASURES, Cont.

### Methods and materials for containment and cleaning up

- SPILL PROCEDURES :** **For Small Spills:** ventilate area, wear chemical splash goggles. Wear rubber boots. Prevent entry into sewers, waterways. Pick up free liquid for recycle or disposal. Absorb small amount on inert material for disposal.
- SPILL PROCEDURES :** **For Large Spills:** Personal Protective Equipment must be worn. Avoid skin contact. Use skin protection. See Personal Protection Section for additional PPE recommendations. Take precautions to avoid release to the environment. Ventilate area if spilled in confined space or other poorly ventilated area. Prevent entry into sewer and waterway, dispose of in accordance with all federal, state and local environmental regulations. Pick-up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling

- Protective measures :** Put on appropriate personal protective equipment (see Section \*). Avoid contact with used product. Do not reuse container.
- Advice on general occupational hygiene :** Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities :** Store in accordance with local regulations. Store in original container protected from direct sunlight in dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and keep upright to prevent leaking. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Occupational exposure limits

Under conditions which may generate mists, the following additional exposure limits are recommended: ACGIH TLV TWA: 5 mg/m<sup>3</sup>; STEL: 10 mg/m<sup>3</sup>.

- Appropriate engineering controls :** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls :** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION, Cont.**

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a skin risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

- Physical state** : Liquid.
- Color** : Brown.
- Odor** : Mild hydrocarbon.
- Odor threshold** : Not available.
- pH** : Not available.
- Pour point** : <-10°F (-23.3°C).
- Boiling point** : Not available.
- Flash point** : >310°F (154°C). [Cleveland]
- Evaporation rate** : Not available.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES, Cont.**

**Appearance, Cont.**

<b>Flammability (Solid, gas)</b>	:	Not available.
<b>Lower and upper explosive (flammable) limits</b>	:	Not available.
<b>Vapor pressure</b>	:	Not available.
<b>Vapor density</b>	:	Not available.
<b>Relative density</b>	:	Not available.
<b>Solubility</b>	:	Not available.
<b>Partition coefficient: n-octanol/water</b>	:	Not available.
<b>Auto-ignition temperature</b>	:	Not available.
<b>Decomposition temperature:</b>	:	Not available.
<b>Viscosity</b>	:	Not available.
<b>Specific Gravity:</b>	:	1.019 @ 60 degrees F.
<b>Density</b>	:	8.49 (lbs/gal).

**SECTION 10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	:	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	:	This product is stable.
<b>Possibility of hazardous reactions</b>	:	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	:	No specific data.
<b>Incompatible material:</b>	:	Reactive or incompatible with the following materials: Oxidizing materials.
<b>Thermal Decomposition</b>	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

<b>Eye</b>	:	Weak to moderate eye irritant. Based on data from components or similar materials.
<b>Skin</b>	:	Cause mild skin irritation. Based on data from components or similar materials
<b>Inhalation</b>	:	Not expected to be a problem as long as exposure limits are not exceeded.
<b>Ingestion</b>	:	Expected to be a low ingestion hazard. Based on data from components or similar materials.



**SECTION 11. TOXICOLOGICAL INFORMATION, Cont.**

**Information on toxicological effects**

**Acute toxicity**

**Oral**

**Component** : Not classified for acute toxicity based on available data.

**Dermal**

**Component** : Not classified for acute toxicity based on available data.

**Inhalation**

**Component** : Not classified for acute toxicity based on available data.

**Skin Corrosion/Irritation**

**Component** : Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.  
Remarks: Causes mild skin irritation.

**Serious Eye Damage/Eye Irritation**

**Component** : Direct contact with eyes may cause temporary irritation. The eye irritation hazard is based on the evaluation of the data for similar products. These data show that a specific component present in this product antagonizes (or decreases the severity of) the eye irritation of the ZnDTP.

**Respiratory sensitization**

**Component** : No data available.

**Skin sensitization**

**Components**

**Mineral oil** : Classification: Not a skin sensitizer. (Read across) Not a skin sensitizer. The skin sensitization hazard is based on evaluation of data for product components. This material is not expected to cause allergic skin reactions when formulated in a finished oil at the prescribed treatment rate.

**Specific Target Organ Toxicity - Single Exposure**

**Components**

**Mineral oil** : If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

**Aspiration Hazard**

**Components**

**Mineral oil** : Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

**Other effects**

**Components** : None known.

**SECTION 11. TOXICOLOGICAL INFORMATION, Cont.**

**Chronic Effects**

**Carcinogenicity**

**Components** : Not expected to cause cancer. This product contains mineral oils which are severely refined and not considered carcinogenic. All the oils in this product have been demonstrated to contain less than 3 % extractables by IP-346 test.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

: No carcinogenic components identified.

**US. National Toxicology Program (NTP) Report on Carcinogenic:**

: No carcinogenic components identified.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

: No carcinogenic components identified.

**Germ Cell Mutagenicity:**

: Not expected to cause heritable genetic effects.

**Reproductive Toxicity**

: Not expected to cause reproductive toxicity.

**Specific Target Organ Toxicity - Repeated Exposure**

: Not expected to cause organ effects from repeated exposure.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Fish**

**Proprietary Ingredients**

**Mixture**

: LC50 Rainbow trout, donaldson trout: 0.06 - 0.08 mg/l, 96 hours  
(Oncorhynchus mykiss)  
LC50 Bleak (Alburnus alburnus): > 10000 mg/l, 96 hours  
> 5000 mg/l, 96 hours  
Bluegill (Lepomis macrochirus): > 300 mg/l, 24 hours  
> 300 mg/l, 96 hours  
> 10.7 mg/l, 24 hours  
> 10.7 mg/l, 96 hours  
> 10 mg/l, 24 hours  
> 10 mg/l, 96 hours  
> 0.1 mg/l, 24 hours  
> 0.1 mg/l, 96 hours  
Channel catfish (Ictalurus punctatus)  
> 300 mg/l, 24 hours  
> 300 mg/l, 96 hours  
> 10 mg/l, 24 hours  
> 10 mg/l, 96 hours  
> 0.1 mg/l, 24 hours  
> 0.1 mg/l, 96 hours

**SECTION 12. ECOLOGICAL INFORMATION, Cont.**

**Ecotoxicity, Cont.  
Fish, Cont.**

**Proprietary Ingredients, Cont.**

<b>Mixture :</b>	<b>Fathead minnow (Pimephales promelas)</b>	> 100 mg/l, 24 hours
		> 100 mg/l, 96 hours
	<b>Rainbow trout, donaldson trout (Oncorhynchus mykiss)</b>	> 300 mg/l, 24 hours
		> 300 mg/l, 96 hours
		94.5 - 271 mg/l, 24 h
		> 10 mg/l, 24 hours
		> 0.1 mg/l, 24 hours
		> 0.1 mg/l, 96 hours
		0.06 - 0.08 mg/l, 96 h
		0.06 - 0.08 mg/l, 96 h
		> 0.0109 mg/l, 24 hours
		> 0.0109 mg/l, 96 hours
	<b>Yellow perch (Perca flavescens)</b>	> 10.7 mg/l, 24 hours
		> 10.7 mg/l, 96 hours
		> 10 mg/l, 24 hours
		> 10 mg/l, 96 hours

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

**Aquatic Invertebrates**

No data available.

**Toxicity to Aquatic Plants**

No data available.

**Toxicity to soil dwelling organisms**

No data available.

**Sediment Toxicity**

No data available.

**Toxicity to Terrestrial Plants**

No data available.

**Toxicity to Above-Ground Organisms**

No data available.

**Toxicity to Microorganisms**

No data available.

## **SECTION 12. ECOLOGICAL INFORMATION, Cont.**

### **Persistence and Degradability**

- : The hydrocarbons in this material are not readily biodegradable, but since they can be degraded by microorganisms, they are regarded as inherently biodegradable.

### **Bioaccumulative Potential**

- : Log Kow values measured for the hydrocarbon components of this material are greater than 55.3, and therefore regarded as having the potential to bioaccumulate. In practice, metabolic processes may reduce bioconcentration.

### **Mobility**

- : Volatilization to air is not expected to be a significant fate process due to the low vapor pressure of this material. In water, base oils will float and spread over the surface at a rate dependent upon viscosity. There will be significant removal of hydrocarbons from the water sediment adsorption. In soil and sediment, hydrocarbon components will show low mobility with adsorption to sediments being the predominant physical process. The main fate process is expected to be low biodegradation of the hydrocarbon constituents in soil and sediment.

### **Other Adverse Effects**

- : No data available.

## **SECTION 13. DISPOSAL CONSIDERATION**

### **WASTE DISPOSAL**

- : This material, if discarded, is not a hazardous waste under RCRA Regulation 40CFR 261. The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION for additional handling information and protection of employees.

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**SECTION 14. TRANSPORTATION INFORMATION**

- U.S. DOT** : Not regulated as dangerous goods.
- IMDG** : Not regulated as dangerous goods.
- IATA** : Not regulated as dangerous goods.
- Special Precautions for User** : No special precautions.

Shipping description may vary based on mode of transport, quantities, temperatures of the material, package size, percent of each component, and/or origin and destination it is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. For transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

**SECTION 15. REGULATORY INFORMATION**

US Federal Regulations

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

<u>Chemical Identity</u>	<u>Reportable Quantity</u>
None	

Superfund Amendments and Reauthorization Act of 1986 (SARA)

<b>Hazard categories</b>	<b>Immediate Hazard:</b> No
	<b>Delayed Hazard:</b> No
	<b>Fire Hazard:</b> No
	<b>Pressure Hazard:</b> No
	<b>Reactivity Hazard:</b> No

SARA 302 Extremely Hazardous Substance

SARA 304 Emergency Release Notification

SARA 311/312 Hazardous Chemical

SARA 313 (TRI Reporting)

No components of this material were found on the regulatory lists above.

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or cause birth defects or other reproductive harm.

NONE.

**SECTION 15. REGULATORY INFORMATION, Cont.**

**US State Regulations, Cont.**

<b>US. Massachusetts RTK:</b>	Not regulated.
<b>US. New Jersey RTK:</b>	Not listed.
<b>US. Pennsylvania RTK:</b>	Not listed.
<b>US. Rhode Island RTK:</b>	Not regulated.

**International Inventories Status:**

**Inventory Status**

<b>Australia (AICS)</b>	:	All components are in compliance with chemical notification requirements in Australia.
<b>Canada (DSL/NDSL)</b>	:	All components are in compliance with Canadian Environmental Protection Act and are present on the Domestic Substances List.
<b>China (IECSC)</b>	:	All components of this product are listed on the Inventory of Existing Chemical Substances in China.
<b>European Union</b>	:	All components of this product are listed on the Inventory of Existing Commercial Chemical Substances (EINECS).
<b>Japan (ENCS)</b>	:	All components are in compliance with the Chemical Substances Control Law of Japan.
<b>New Zealand (NZIoC)</b>	:	All components are in compliance with chemical notification requirements in New Zealand.
<b>Philippines (PICCS)</b>	:	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
<b>Taiwan (TCSCA)</b>	:	All components of this product are listed on the Taiwan inventory.
<b>United States (TSCA)</b>	:	All components of this material are on the US TSCA Inventory or are exempt.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

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## SECTION 16. OTHER INFORMATION

**Key literature references and sources for data:** : Internal company data, suppliers and other publicly available resources.

### HMIS Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

### NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible.

**Revision Date:** 18-March-2015  
**Updated to Format.**

### Key to Abbreviations:

ACGIH = American Conference of Government Industrial Hygienists; API = American Petroleum Institute; ATE = Acute Toxicity Estimate; BCF = Bioconcentration Factor; CAS/CASRN = Chemical Abstracts Service Registry Number, CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; DOT = Department of Transportation (USA); EPA = Environmental Protection Agency; GHS = Globally Harmonization System; IARC = International Agency for Research for Cancer; IATA = International Air Transport Association; IBC = Intermediate Bulk Container; IMO/IMDG = International Maritime Dangerous Goods Code; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; LogPow = Logarithm of the octanol/water partition coefficient; MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships; 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution); NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SDS = Safety Data Sheet; SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weight Average (8 hours); UEL = Upper Explosive Limit; UN = United Nations; WHMIS = Worker Hazardous Materials Information System (Canada).

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## **SECTION 16. OTHER INFORMATION**

### **Notice to reader:**

THE INFORMATION IN THIS SAFETY DATA SHEET (SDS) WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED REGARDING ITS CORRECTNESS OR ACCURACY. SOME INFORMATION PRESENTED AND CONCLUSION DRAWN HEREIN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE SUBSTANCE ITSELF. THIS SDS WAS PREPARED AND IS TO BE USED ONLY FOR THIS PRODUCT. IF THE PRODUCT IS USED AS A COMPONENT IN ANOTHER PRODUCT, THIS SDS INFORMATION MAY NOT BE APPLICABLE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABLE OF THE INFORMATION OR PRODUCTS FOR THEIR PARTICULAR PURPOSE OR APPLICATION.

THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE, AND/OR DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND MANY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESS DISCLAIM LIABILITY FOR ANY LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT.

No responsibility is assumed for any damage or injury resulting from abnormal use from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

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