



Totaline® POE220VS Refrigeration Lubricant

P903-2301, P903-2305, P903-2325

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision date: 6/27/2024 Supersedes: 3/30/2023

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Totaline® POE220VS Refrigeration Lubricant
Product code : P903-2301, P903-2305, P903-2325

1.2. Recommended use and restrictions on use

Recommended use : Refrigeration lubricant

1.3. Supplier

Distributor

Replacement Components, Carrier Corporation
Syracuse, NY
USA

Manufacturer

North American Research Corporation
519 Huffines Blvd., Lewisville, TX 75056
P.O. Box 1318, Lewisville, TX 75067
USA
T 972-492-1800, 800-527-7520 - F 972-394-6755
Info@narcochem.com - www.narcochem.com

1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call Infotrac 24hr/day 7days/week
Within USA and Canada: 1-800-535-5053
Outside USA and Canada: 1-352-323-3500

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Reproductive toxicity, Category 2 H361 Suspected of damaging fertility or the unborn child.
Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning
Hazard statements (GHS US) : H361 - Suspected of damaging fertility or the unborn child.
Precautionary statements (GHS US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves, eye protection.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national and international regulations

2.3. Other hazards which do not result in classification

No additional information available

Totaline® POE220VS Refrigeration Lubricant

P903-2301, P903-2305, P903-2325

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Fatty acids, C5-9, hexaesters with dipentaerythritol	CAS-No.: 67762-52-1	> 98
tricresyl phosphates, mixture of isomers, (less than 1% ortho-isomer)	CAS-No.: 1330-78-5	< 2

If the specific chemical identity and/or exact percentage of an ingredient is not specified, the information has been withheld as a trade secret.

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash with soap and water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Totaline® POE220VS Refrigeration Lubricant

P903-2301, P903-2305, P903-2325

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Totaline® POE220VS Refrigeration Lubricant

No additional information available

tricresyl phosphates, mixture of isomers, (less than 1% ortho-isomer) (1330-78-5)

No additional information available

Fatty acids, C5-9, hexaesters with dipentaerythritol (67762-52-1)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

Totaline® POE220VS Refrigeration Lubricant

P903-2301, P903-2305, P903-2325

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid. Colorless to pale yellow liquid.
Colour	: Colourless to Amber
Odour	: Mild odor
Odour threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 290 °C Open cup
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: 0.971 15°C
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 220 mm²/s 40°C
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

Totaline® POE220VS Refrigeration Lubricant

P903-2301, P903-2305, P903-2325

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Thermal decomposition may produce :

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

triclesyl phosphates, mixture of isomers, (less than 1% ortho-isomer) (1330-78-5)

LD50 oral rat	15750 mg/kg
LD50 dermal rabbit	3700 mg/kg
LC50 Inhalation - Rat	> 11.1 mg/l
ATE US (oral)	15750 mg/kg bodyweight
ATE US (dermal)	3700 mg/kg bodyweight

Fatty acids, C5-9, hexaesters with dipentaerythritol (67762-52-1)

LD50 oral rat	> 2000 mg/kg Source: ECHA Chem
LD50 dermal rat	> 2000 mg/kg Source: ECHA Chem

Skin corrosion/irritation : Causes mild skin irritation
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Suspected of damaging fertility or the unborn child.
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : 220 mm²/s 40°C

Totaline® POE220VS Refrigeration Lubricant

P903-2301, P903-2305, P903-2325

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

tricresyl phosphates, mixture of isomers, (less than1% ortho-isomer) (1330-78-5)	
LC50 - Fish [1]	0.6 mg/l
EC50 - Crustacea [1]	146 µg/l
EC50 96h - Algae [1]	1.3 mg/l ECOTOX
ErC50 algae	> 2.5 mg/l
NOEC chronic fish	0.01 mg/l
Fatty acids, C5-9, hexaesters with dipentaerythritol (67762-52-1)	
LC50 - Fish [1]	> 1000 mg/l Source: ECHA Chem

12.2. Persistence and degradability

tricresyl phosphates, mixture of isomers, (less than1% ortho-isomer) (1330-78-5)	
Persistence and degradability	OECD TG 301 D. 24.2 % biodegradation 28 days. Not readily biodegradable.

12.3. Bioaccumulative potential

tricresyl phosphates, mixture of isomers, (less than1% ortho-isomer) (1330-78-5)	
BCF - Fish [1]	≤ 2000
Partition coefficient n-octanol/water (Log Pow)	5.93
Fatty acids, C5-9, hexaesters with dipentaerythritol (67762-52-1)	
Partition coefficient n-octanol/water (Log Pow)	15.75 Source: QSAR, ECHA Chem

12.4. Mobility in soil

tricresyl phosphates, mixture of isomers, (less than1% ortho-isomer) (1330-78-5)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.31
Fatty acids, C5-9, hexaesters with dipentaerythritol (67762-52-1)	
Mobility in soil	426579.5 Source: ECHA Chem

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Totaline® POE220VS Refrigeration Lubricant

P903-2301, P903-2305, P903-2325

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

No data available

IMDG

No data available

IATA

No data 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. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Fatty acids, C5-9, hexaesters with dipentaerythritol	CAS-No. 67762-52-1	> 98%
--	--------------------	-------

Totaline® POE220VS Refrigeration Lubricant

P903-2301, P903-2305, P903-2325

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

tricresyl phosphates, mixture of isomers, (less than 1% ortho-isomer) (1330-78-5)

SARA Section 311/312 Hazard Classes

Health hazard - Reproductive toxicity

15.2. International regulations

CANADA

tricresyl phosphates, mixture of isomers, (less than 1% ortho-isomer) (1330-78-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
tricresyl phosphates, mixture of isomers, (less than 1% ortho-isomer) (1330-78-5)	U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 06/27/2024

Full text of H-statements

H361 Suspected of damaging fertility or the unborn child.

Safety Data Sheet (SDS), USA_NAR_2022-09

NOTICE: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all federal, state, provincial, and local laws and regulations.