SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

RHEOLUBE 951

of the mixture

Registration number

Synonyms None.

Product Code RHEOLUBE 951
Issue date May-31-2011

Version number 02

Revision date February-15-2014
Supersedes date May-31-2011

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

Identified uses Not available.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company nameNye Lubricants, Inc.Address12 Howland Road

Fairhaven, MA 02719

US

Division

Telephone 001-508-996-6721

e-mail Not available.

Contact person Not available.

1.4. Emergency telephone CHEMTREC 001-703-527-3887

number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

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

Classification Repr. Cat. 2;R60, R52/53 The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, oral Category 4 H302 - Harmful if swallowed. Reproductive toxicity (fertility) Category 1B H360F - May damage fertility.

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards May impair fertility.

Environmental hazards Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Specific hazardsNot available.Main symptomsNot available.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: PHOSPHATE, TRIXYLYL

Hazard pictograms

Material name: RHEOLUBE 951 SDS LATVIA

RHEOLUBE 951 Version #: 02 Revision date: February-15-2014 Issue date: May-31-2011

Signal word Danger

Hazard statements

H302 Harmful if swallowed. H360F May damage fertility.

Precautionary statements

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P281 Use personal protective equipment as required.

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage

P405 Store locked up.

Disposal P501

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information 99,5% of the mixture consists of component(s) of unknown acute oral toxicity.

2.3. Other hazards Not assigned.

SECTION 3: Composition/information on ingredients

3,2. Mixtures

General information

Chemical name % CAS-No. / EC No. REACH Registration No. Index No. Notes

PHOSPHATE, TRIXYLYL 3 - < 5 25155-23-1 - 015-201-00-9

246-677-8

Classification: DSD: Repr. Cat. 2;R60

CLP: Repr. 1B;H360F, Aquatic Chronic 3;H412

2,6-DI-TERT-BUTYL-P-CRESOL < 1 128-37-0 - -

204-881-4

Classification: DSD: Xn;R22, N;R50/53

CLP: Acute Tox. 4;H302, Aquatic Acute 1;H400, Aquatic Chronic 2;H411

Other components below reportable levels 90 - 100

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC.

#: This substance has workplace exposure limit(s). PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Composition comments The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information In the case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible). Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves.

4.1. Description of first aid measures

Inhalation If symptoms develop, remove affected person from source of exposure into fresh air. Get

immediate medical attention. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if symptoms occur. Wash clothing separately

before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if

irritation develops or persists. Get immediate medical attention.

Ingestion If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting without

medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Never give anything by mouth to a victim who is unconscious or is having convulsions. Rinse mouth.

4.2. Most important symptoms and effects, both acute and

delaved

Not available.

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

In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards

Not available.

5.1. Extinguishing media

Suitable extinguishing

media

Water Fog. Foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing

media

Water. Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear suitable protective equipment.

Combustible. See also section 10.

Special fire fighting procedures

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Move containers from fire area if you can do it without risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Observe precautions from other sections.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

MSDS.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Soak up with inert absorbent material. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Clean contaminated surface thoroughly. Following product recovery, flush area with water. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. Clean up spills immediately, observing precautions in Protective Equipment section. Sweep up and shovel into suitable containers for disposal.

6.4. Reference to other sections

For waste disposal, see section 13 of the MSDS. See Section 8 of the MSDS for Personal Protective Equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Avoid prolonged or repeated skin contact with this material. Avoid breathing gas/vapors/mist/fumes. Do not handle or store near an open flame, heat or other sources of ignition. Do not take internally. To avoid thermal decomposition, do not overheat. Do not taste or swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Store in cool place. Store in a closed container away from incompatible materials. Keep out of the reach of children.

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits
No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Not available. Not available.

Predicted no effect concentrations (PNECs)

8.2. Exposure controls Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information Not available.

Eye/face protection Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection

- Hand protection Not normally needed.

- Other Wear suitable protective clothing. Wear nitrile, neoprene, PVC or viton gloves. Personal protection

equipment should be chosen according to the CEN standards and in discussion with the supplier

of the personal protective equipment.

Respiratory protection An air purifying respirator with an organic vapor cartridge may be used under certain

> circumstances where airborne concentrations are expected to exceed exposure limits, or if irritation or symptoms are experienced. Respiratory protection must be provided in accordance with 29 CFR 1910.134. When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

Thermal hazards Not available.

Hygiene measures When using, do not eat, drink or smoke. Wash hands after handling and before eating. Wash

hands thoroughly after handling. Launder contaminated clothing before reuse.

Environmental exposure

controls

Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid.

Form Liquid. Semi-solid

Color Tan Odor Slight

Odor threshold Not available. Not available. Not available. Melting point/freezing point

Initial boiling point and boiling

range

Not available.

Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

Vapor pressure Not available. Vapor density Not available. Not available Relative density Not available. Solubility(ies) Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperatureNot available.ViscosityNot available.Explosive propertiesNot available.Oxidizing propertiesNot available.

9.2. Other information

Kinematic viscosity 39 cSt Shelf life 4 years

SECTION 10: Stability and reactivity

10.1. Reactivity Strong oxidizing agents.

10.2. Chemical stability Material is stable under normal conditions. Stable.

10.3. Possibility of hazardous

reactions

Not available.

10.4. Conditions to avoid Heat, flames and sparks. Avoid temperatures exceeding the flash point.

10.5. Incompatible materials Strong acids, alkalies and oxidizing agents.

10.6. Hazardous Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of

decomposition products phosphorus.

SECTION 11: Toxicological information

General information Not available.

Information on likely routes of exposure

Ingestion Harmful if swallowed.

Inhalation Not available.

Skin contact Knowledge about health hazard is incomplete.

Eye contact Knowledge about health hazard is incomplete.

Symptoms Not available.

11.1. Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components Species Test Results

2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0)

Acute Oral

LD50 Guinea pig 10700 mg/kg

 Mouse
 1040 mg/kg

 Rat
 890 mg/kg

Skin corrosion/irritationKnowledge about health hazard is incomplete.Serious eye damage/eyeKnowledge about health hazard is incomplete.

irritation

Skin sensitization

Respiratory sensitization Knowledge about sensitization hazard is incomplete.

Germ cell mutagenicity Knowledge about mutagenicity is incomplete.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by ACGIH and

Knowledge about sensitization hazard is incomplete.

IARC. This product does not contain any carcinogens or potential carcinogens as listed by IARC. This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC

and NTP. Knowledge about carcinogenicity is incomplete.

IARC Monographs. Overall Evaluation of Carcinogenicity

2,6-DI-TERT-BUTYL-P-CRESOL (CAS 128-37-0) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicityKnowledge about health hazard is incomplete. **Specific target organ toxicity -**Knowledge about health hazard is incomplete.

single exposure

Specific target organ toxicity -

repeated exposure

Knowledge about health hazard is incomplete.

Aspiration hazard Knowledge about health hazard is incomplete.

Material name: RHEOLUBE 951

^{*} Estimates for product may be based on additional component data not shown.

Mixture versus substance

information

Not available.

Other information

Not available.

SECTION 12: Ecological information

This material is not expected to be harmful to aquatic life. 12.1. Toxicity

Components	Species	Test Results
2,6-DI-TERT-BUTYL-P-CRESOL (CAS	128-37-0)	
Algae IC50	Algae	6 mg/L, 72 Hours
Aquatic		
Crustacea EC50	Water flea (Daphnia pulex)	1,44 mg/l, 48 hours
PHOSPHATE, TRIXYLYL (CAS 25155-	23-1)	
Aquatic		
Fish LC50	Zebra danio (Danio rerio)	20 - 30 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

12.2. Persistence and

No data is available on the degradability of this product.

degradability

12.3. Bioaccumulative potential Not available. Not available. **Bioconcentration factor (BCF)** 12.4. Mobility in soil Not available.

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

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

EU waste code

The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information

Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Contract with a disposal operator licensed by the Law on Disposal and Cleaning. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not

contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

IMDG Regulated Marine Pollutant. General

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC This substance/mixture is not intended to be transported in bulk.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, Article 59(1). Candidate List

Not listed.

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed

Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use

PHOSPHATE, TRIXYLYL (CAS 25155-23-1)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work PHOSPHATE, TRIXYLYL (CAS 25155-23-1)

Directive 94/33/EC on the protection of young people at work

PHOSPHATE, TRIXYLYL (CAS 25155-23-1)

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product does not need to be labelled in accordance with EC directives or respective national laws.

This safety datasheet complies with the requirements of Directive 2001/58/EC.

National regulations Not available.

15.2. Chemical Safety No Che

Assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviationsNot available.ReferencesNot available.Information on evaluationNot available.

method leading to the classification of mixture
Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R22 Harmful if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R60 May impair fertility. H302 Harmful if swallowed. H360F May damage fertility. H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

Revision information SECTION 2: Hazards identification: Disposal

SECTION 2: Hazards identification: Hazard statements

SECTION 2: Hazards identification: Supplemental label information

Training information Not available.

Issued by Eric Bartholomay

Technical Support Engineer

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication . The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. Nye Lubricants, Inc. makes no warranty with respect thereto and disclaims all liability with respect thereon. The information in the sheet was written based on the best knowledge and experience

currently available.