SAFETY DATA SHEET



1. Identification

Product identifier SYNTHETIC OIL A465

Other means of identification None.

Lubricating Oil Recommended use Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information Company name Nye Lubricants, Inc.

A Member of the FUCHS Group

Address 12 Howland Road

Fairhaven, MA 02719

USA

+1 508 996 6721 **Telephone** E-mail sds@fuchs.com

Emergency telephone

+1 866 519 4752

number

334212

Access code

Website www.nyelubricants.com

2. Hazard(s) identification

Not classified. Physical hazards

Health hazards Carcinogenicity Category 2

OSHA defined hazards Not classified.

Label elements



Signal word

Hazard statement Suspected of causing cancer.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wear protective gloves/protective clothing/eye protection/face protection.

If exposed or concerned: Get medical advice/attention. Response

Store locked up. Storage

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED LIGHT PARAFFINIC		64742-56-9	5 - < 10
PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFINIC		64742-54-7	5 - < 10

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Chemical name	Common name and synonyms	CAS number	%	
PETROLEUM DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC		64742-65-0	5 - < 10	
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC		64742-55-8	3 - < 5	
DIPHENYLAMINE		122-39-4	< 1	
Other components below reportable	levels		60 - < 70	

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur. Most important Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and delayed

Indication of immediate medical attention and special

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. treatment needed

General information IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

Move containers from fire area if you can do so without risk.

equipment/instructions Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

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

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Permissible Exposu Components	re Limits (PEL) for Air Contaminants Type	s (29 CFR 1910.100 Value	00) Form
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC (CAS 64742-55-8)	PEL	5 mg/m3	Mist.
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED LIGHT PARAFFINIC (CAS 64742-56-9)	PEL	5 mg/m3	Mist.
PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFINIC (CAS 64742-54-7)	PEL	5 mg/m3	Mist.
PETROLEUM DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
JS. ACGIH Threshold Limit Values (TLV) Components	Туре	Value	Form
DIPHENYLAMINE (CAS 22-39-4)	TWA	10 mg/m3	
DISTILLATES PETROLEUM), HYDROTREATED LIGHT PARAFFINIC (CAS 64742-55-8)	TWA	5 mg/m3	Inhalable fraction.
DISTILLATES PETROLEUM), SOLVENT-DEWAXED IGHT PARAFFINIC (CAS	TWA	5 mg/m3	Inhalable fraction.
PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFINIC (CAS 64742-54-7)	TWA	5 mg/m3	Inhalable fraction.
PETROLEUM DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	TWA	5 mg/m3	Inhalable fraction.
NIOSH. Immediately Dangerous to Life o	r Health (IDLH) Values, as amended Type	Value	
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC (CAS 64742-55-8)	IDLH	2500 mg/m3	

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NIOSH. Immediately Da	ngerous to Life or Health (IDLH) Values, as amended
Components	Type

Components	Туре	Value	
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED LIGHT PARAFFINIC (CAS 64742-56-9)	IDLH	2500 mg/m3	
PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFINIC (CAS 64742-54-7)	IDLH	2500 mg/m3	
PETROLEUM DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	IDLH	2500 mg/m3	

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

Components	Туре	Value	Form	
DIPHENYLAMINE (CAS 122-39-4)	TWA	10 mg/m3		
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC (CAS 64742-55-8)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED LIGHT PARAFFINIC (CAS 64742-56-9)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	
PETROLEUM DISTILLATES, HYDROTREATED HEAVY PARAFFINIC (CAS 64742-54-7)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	
PETROLEUM DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	Ceiling	1800 mg/m3		
	STEL	10 mg/m3	Mist.	

Biological limit values

ACGIH Biological Exposure Indices (BEI)

Components	Value	Determinant	Specimen	Sampling Time
DIPHENYLAMINE (CAS 122-39-4)	5 %	Methemoglobin	Hemoglobin in blood	*

^{* -} For sampling details, please see the source document.

Appropriate engineering controls

Good general ventilation 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

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Use of an impervious apron is recommended.

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Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.







General hygiene considerations

Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Liquid.

Color

Odor

Not available.

Odor threshold

PH

Not available.

range

Flash point 474.8 °F (246.0 °C) ASTM D-92

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density 0.92 g/cm³ Explosive properties Not explosive.

Flammability class Combustible IIIB estimated

Kinematic viscosity 62.1 cSt

Kinematic viscosity 104 °F (40 °C)

temperature

Oxidizing properties Not oxidizing.

Pour point -65.2 °F (-54 °C)

Shelf life 4 years

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Prolonged inhalation may be harmful. Inhalation

Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Not known. Acute toxicity

Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible. Serious eye damage/eye

irritation

Respiratory or skin sensitization

Due to partial or complete lack of data the classification is not possible. Respiratory sensitization Skin sensitization Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

DIPHENYLAMINE (CAS 122-39-4) 2B Possibly carcinogenic to humans.

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT 3 Not classifiable as to carcinogenicity to humans.

PARAFFINIC (CAS 64742-55-8)

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED 3 Not classifiable as to carcinogenicity to humans.

LIGHT PARAFFINIC (CAS 64742-56-9)

PETROLEUM DISTILLATES, HYDROTREATED HEAVY 3 Not classifiable as to carcinogenicity to humans.

PARAFFINIC (CAS 64742-54-7)

PETROLEUM DISTILLATES, SOLVENT DEWAXED 3 Not classifiable as to carcinogenicity to humans.

HEAVY PARAFFINIC (CAS 64742-65-0)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -Due to partial or complete lack of data the classification is not possible.

repeated exposure

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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Components Species Test Results

DIPHENYLAMINE (CAS 122-39-4)

Aquatic

Acute

Fish LC50 Medaka, high-eyes (Oryzias latipes) 4 mg/l, 24 hours

2.2 mg/l, 48 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

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

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code

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

disposal company.

Waste from residues / unused

products

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 Since emptied containers may retain product residue, follow label warnings even after container is

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

disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

Not established.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

categories

Carcinogenicity

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Diphenylamine122-39-4< 1</td>

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

California Proposition 65



WARNING: This product can expose you to chemicals including ANILINE, which is known to the State of

California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Inventory name

1-NAPHTHYLAMINE (CAS 134-32-7) Listed: October 1, 1989 2-NAPHTHYLAMINE (CAS 91-59-8) Listed: February 27, 1987 ANILINE (CAS 62-53-3) Listed: January 1, 1990

Australian Inventory of Industrial Chemicals (AICIS)

Taiwan Chemical Substance Inventory (TCSI)

International Inventories

Australia

Taiwan

Country(s) or region

Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

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16. Other information, including date of preparation or last revision

Issue date May-07-2025

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Disclaimer Nye Lubricants, Inc. A Member of the FUCHS Group cannot anticipate all conditions under which

this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and

experience currently available.

Revision informationThis document has undergone significant changes and should be reviewed in its entirety.

Material name: SYNTHETIC OIL A465

On inventory (yes/no)*

Yes

Yes