

## Safety data sheet according to Regulation (EC) No 1272/2008, Annex II

# 1. Identification

**Material Name** Bauer-Kompressorenöl

**Product Code** N18145

**Product Use** Compressor oil

**Uses Advised Against** This product must not be used in applications other

than those recommended in Section 1, without first

seeking the advice off the supplier.

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# 2. Hazards Identification

Classification of Classification according to Regulation (EC) 1272/2008 the substance or mixture

Not Classified

**Label elements** No Label elements according to Regulation (EC)

1272/2008

Contains: Tributylcresylbutane, N-PHENYL-1-

**NAPHTHYLAMINE** 

May produce an allergic reaction.

Other hazards No significant hazards.

> High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin,

or respiratory irritation.

Material does not meet the criteria for PBT or vPvB in

accordance with REACH Annex XIII



# 3. Composition/information on ingredients

**Substances** Not applicable. This material is regulated as a

mixture.

**Mixtures**This material is defined as a mixture.

Reportable hazardous substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

Name	CAS#	EC#	Registration#	Concentr ation*	GHS/CLP classification
N-PHENYL-1-NAPHTHYLAMINE	90-30-2	201-983-0	01-2119488764-27	1%	Acute Tox. 4 H302, Skin Sens. 1 H317, Aquatic Acute 1 H400 (M factor 1), Aquatic Chronic 1 H410 (M factor 1)
4,4',4''-(1-METHYLPROPANYL-3- YLIDENE)TRIS[6-TERT-BUTYL-M-CRESOL]	1843-03-4	217-420-7	01-2119955265-33	0.1 - < 1%	Skin Sens. 1 H317
BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE	68411-46-1	270-128-1	NE	1 - < 5%	[Aquatic Acute 3 H402], Aquatic Chronic 3 H412
DITRIDECYL ADIPATE	16958-92-2	241-029-0	NE	1 - < 5%	OEL
PHENOL, DIMETHYL-, PHOSPHATE (3:1)	25155-23-1	246-677-8	NE	< 0.1%	Aquatic Acute 1 H400 (M factor 10), Aquatic Chronic 1 H410 (M factor 1), Repr. 1B H360F, STOT RE 2 H373

Note - any classification in brackets is a GHS building block that was not adopted by the EU in the CLP regulation (No 1272/2008) and therefore is not applicable in the EU or in non-EU countries which have implemented the CLP regulation and is shown for informational purposes only.

Name	CAS#	EC#	Registration#	Concentr	DSD Symbols/Risk
				ation*	Phrases
N-PHENYL-1-NAPHTHYLAMINE	90-30-2	201-983-0	01-2119488764-27	1%	Xn;R22, Xi;R43, N;R50/53
BENZENAMINE, N-PHENYL-, REACTION	68411-46-1	270-128-1	NE	1 - < 5%	R52/53
PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE					
DITRIDECYL ADIPATE	16958-92-2	241-029-0	NE	1 - < 5%	OEL
PHENOL, DIMETHYL-, PHOSPHATE (3:1)	25155-23-1	246-677-8	NE	< 0.1%	Xn;R48/22, T;Repro. Cat.
					2;R60, N;R50/53

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Note: See (M)SDS Section 16 for full text of the R-Phrases. See (M)SDS Section 16 for full text of hazard statements.



## 4. First aid measures

**Inhalation** 

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

**Skin contact** 

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

**Eye contact** 

Flush thoroughly with water. If irritation occurs, get

medical assistance.

Ingestion

First aid is normally not required. Seek medical

attention if discomfort occurs.

Most important symptoms and effects, both acute and delayed

Headache, dizziness, drowsiness, nausea and other CNS effects. Shallow respiration, low blood pressure, bluish skin color, convulsions, coma and jaundice. Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.

Indication of any immediate medical attention and special treatment needed

The need to have special means for providing specific and immediate medical treatment available in the workplace is not expected.



# 5. Firefighting measures

**Suitable extinguishing media**Use water fog, foam, dry chemical or carbon dioxide (CO2) to

extinguish flames.

**Unsuitable extinguishing media** Straight streams of water

Special hazards arising from the

substance or mixture

Hazardous Combustion Products: Oxides of carbon, Sulphur oxides, Incomplete combustion products, Aldehydes, Smoke,

Fume

**Advice for firefighters** Fire Fighting Instructions: Evacuate area. Prevent run-off from

fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed

surfaces and to protect personnel.

Flammability Properties Flash Point [Method]: >220°C (428°F) [ASTM D-92]

Upper/Lower Flammable Limits (Approximate volume % in air):

UEL: 7.0 LEL: 0.9 [Estimated]

Autoignition Temperature: No data available

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

**NOTIFICATION PROCEDURES** 

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**PROTECTIVE MEASURES** 

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the

expert judgment of the emergency responders.

**Environmental precautions** Large Spills: Dyke far ahead of liquid spill for later recovery and

disposal. Prevent entry into waterways, sewers, basements or

confined areas.

Methods and material for containment and cleaning up

Land Spill: Stop leak if you can do so without risk. Recover by

pumping or with suitable absorbent.

Water Spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek



the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

**Reference to other sections** 

See Sections 8 and 13.

# 7. Handling and storage

## **Precautions for safe handling**

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

# Conditions for safe storage, including any incompatibilities

The container choice, for example storage vessel, may effect static accumulation and dissipation. Do not store in open or unlabelled containers.

#### Specific end use(s)

Section 1 informs about identified end-uses. No industrial or sector specific guidance available.

# 8. Exposure controls/personal protection

## **Appropriate engineering controls**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.



**Personal Protection** Personal protective equipment selections vary based on

potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as

provided below, is based upon intended, normal usage.

**Eye/face protection** If contact is likely, safety glasses with side shields are

recommended.

**Hand protection** Any specific glove information provided is based on published

literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: No protection is ordinarily required under normal conditions of

use.

**Skin protection – other**Any specific clothing information provided is based on published

literature or manufacturer data. The types of clothing to be

considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices,

precautions should be taken to avoid skin contact.

**Respiratory protection** If engineering controls do not maintain airborne contaminant

concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be

considered for this material include:

No special requirements under ordinary conditions of use and

with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when

oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Specific Hygiene Measures** 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. Discard contaminated clothing and footwear that cannot be cleaned. Practice good

housekeeping.

**Environmental controls**No information available at present.



# 9. Physical and chemical properties

**Physical state** Liquid Colour Amber Odour Characteristic **Odour threshold** No data available pH-value Not technically feasible Melting point/freezing point Not technically feasible Initial boiling point and boiling range >316°C (600°F) [Estimated] >220°C (428°F) ASTM D-92 Flash point

**Evaporation rate**Flammability (solid, gas)
No data available
Not technically feasible

Lower flammable limit LEL: 0.9
Upper flammable limit UEL: 7.0

**Vapour pressure** <0.013 kPa (0.1 mm Hg) at 20°C [Estimated]

**Vapour density (air = 1)** > 2 at 101 kPa [Estimated] **Relative Density (at 15 °C)** 0.976 [test method unavailable]

Water solubility Negligible

Partition coefficient (n-octanol/water)> 3.5 [Estimated]Auto-ignition temperatureNo data availableDecomposition temperatureNo data available

**Viscosity** 150 cSt (150 mm2/sec) at 40°C | 13.2 cSt (13.2 mm2/sec) at

100°C [test method unavailable]

**Explosive properties** None **Oxidising properties** None

**Pour Point** -30°C (-22°F) [test method unavailable]

# 10. Stability and reactivity

**Reactivity** See sub-sections below.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions** Hazardous polymerization will not occur.

**Conditions to avoid** Excessive heat. High energy sources of ignition.

**Incompatible materials** Strong oxidisers

**Hazardous decomposition products** Material does not decompose at ambient temperatures.



# 11. Toxicological information

## Information on toxicological effects

Hazard Class	Conclusion / Remarks			
Inhalation				
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.			
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.			
Ingestion				
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.			
Skin				
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.			
Skin Corrosion/Irritation: No end point data for material.	Negligible irritation to skin at ambient temperatures. Based on assessment of the components.			
Eye				
Serious Eye Damage/Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.			
Sensitisation				
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.			
Skin Sensitization: No end point data for material.	Not expected to be a skin sensitizer. Based on assessment of the components.			
Aspiration: Data available.	Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.			
Germ Cell Mutagenicity: No end point data	Not expected to be a germ cell mutagen. Based on assessment of the			
for material.	components.			
Carcinogenicity: No end point data for material.	Not expected to cause cancer. Based on assessment of the components.			
<b>Reproductive Toxicity</b> : No end point data for material.	Not expected to be a reproductive toxicant. Based on assessment of the components.			
Lactation: No end point data for material.	Not expected to cause harm to breast-fed children.			
Specific Target Organ Toxicity (STOT)	·			
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.			
Repeated Exposure: No end point data for material.	Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components.			

# **Toxicity for Substances**

NAME	ACUTE TOXICITY		
N-PHENYL-1-NAPHTHYLAMINE	Oral Lethality: LD 50 1625 mg/kg (Rat)		



#### **OTHER INFORMATION**

#### **Contains:**

Synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitising in test animals and humans. N-phenyl-1-naphthylamine: A single oral overexposure may lead to signs of cyanosis, including headache, shallow respiration, dizziness, confusion, fall in blood pressure, convulsions, coma, jaundice. Anemia may occur later. Repeated exposure in laboratory animals caused liver and kidney damage and depression of bone marrow activity. Hematuria may occur due to bladder and kidney irritation. Genotoxic in-vitro. Phenyl-alpha-naphthylamine (PAN): Undiluted PAN is a skin sensitizer. Human testing with lubricants containing 1.0% PAN caused no reactions indicative of sensitization.

12. Ecological information	1
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**Toxicity** Material -- Not expected to be harmful to aquatic organisms.

Persistence and degradability Not determined

Bioaccumulative potential Not determined

Mobility in soil

Base oil component -- Low solubility and floats and is expected

to migrate from water to the land. Expected to partition to

sediment and wastewater solids.

Persistence, Bioaccumulation and

**Toxicity for Substance(s)** 

This product is not, or does not contain, a substance that is a

PBT or a vPvB.

Other adverse effects No adverse effects are expected

# 13. Disposal considerations

Waste Treatment Methods Product is suitable for burning in an enclosed controlled burner

for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils

with solvents, brake fluids or coolants.

**Regulatory Disposal Information** European Waste Code: 13 02 06\*

NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants

in order to assign the proper waste disposal code(s).



This material is considered as hazardous waste pursuant to Directive 91/689/EEC on hazardous waste, and subject to the provisions of that Directive unless Article 1(5) of that Directive applies.

#### **Empty Container Warning**

Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

## 14. Transport information

Land (ADR/RID) Not Regulated for Land Transport

Inland Waterways (ADNR/AND) Not Regulated for Inland Waterways Transport

**Sea (IMDG)**Not Regulated for Sea Transport according to IMDG-Code

Sea (MARPOL 73/78 Convention -

Annex II):

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

Not classified according to Annex II

Air (IATA) Not Regulated for Air Transport

## 15. Regulatory information

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

Applicable EU Directives and Regulations:

1907/2006 [... on the Registration, Evaluation, Authorisation and Restriction of Chemicals ... and amendments thereto] 1272/2008 [on classification, labelling and packaging of substances and mixtures.. and amendments thereto]

**Chemical safety assessment** 

REACH Information: A Chemical Safety Assessment has been carried out for one or more substances present in the material.



# 16. Other information

**References** Sources of information used in preparing this SDS included one

or more of the following: results from in house or supplier toxicology studies, CONCAWE Product Dossiers, publications from other trade associations, such as the EU Hydrocarbon Solvents REACH Consortium, U.S. HPV Program Robust

Summaries, the EU IUCLID Data Base, U.S. NTP publications, and

other sources, as appropriate.

# List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

Acronym Full text

N/A Not applicable N/D Not determined NE Not established

VOC Volatile Organic Compound

AICS Australian Inventory of Chemical Substances

AIHA WEEL American Industrial Hygiene Association Workplace Environmental Exposure Limits
ASTM ASTM International, originally known as the American Society for Testing and

Materials (ASTM)

DSL Domestic Substance List (Canada)

EINECS European Inventory of Existing Commercial Substances

ELINCS European List of Notified Chemical Substances

ENCS Existing and new Chemical Substances (Japanese inventory)

IECSC Inventory of Existing Chemical Substances in China

KECI Korean Existing Chemicals Inventory
NDSL Non-Domestic Substances List (Canada)
NZIOC New Zealand Inventory of Chemicals

PICCS Philippine Inventory of Chemicals and Chemical Substances

TLV Threshold Limit Value (American Conference of Governmental Industrial Hygienists)

TSCA Toxic Substances Control Act (U.S. inventory)

UVCB Substances of Unknown or Variable composition, Complex reaction products or

**Biological materials** 

LC Lethal Concentration

LD Lethal Dose
LL Lethal Loading

EC Effective Concentration EL Effective Loading

NOEC No Observable Effect Concentration
NOELR No Observable Effect Loading Rate



# KEY TO THE RISK CODES CONTAINED IN SECTION 2 AND 3 OF THIS DOCUMENT (for information only):

R22; Harmful if swallowed.

R43; May cause sensitisation by skin contact.

R48/22; Harmful: danger of serious damage to health by prolonged exposure 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.

## **KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):**

Acute Tox. 4 H302: Harmful if swallowed; Acute Tox Oral, Cat 4

Skin Sens. 1 H317: May cause allergic skin reaction; Skin Sensitization, Cat 1

Repr. 1B H360F: May damage fertility; Repro Tox, Cat 1B (Fertility)

STOT RE 2 H373: May cause damage to organs through prolonged or repeated exposure; Target Organ,

Repeated, Cat 2

Aquatic Acute 1 H400: Very toxic to aquatic life; Acute Env Tox, Cat 1 [Aquatic Acute 3 H402]: Harmful to aquatic life; Acute Env Tox, Cat 3

Aquatic Chronic 1 H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1 Aquatic Chronic 3 H412: Harmful to aquatic life with long lasting effects; Chronic Env Tox, Cat 3

#### THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

No revision information is available.