

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Spezialfett P 34****1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Lubricant

**1.2.2 Uses advised against**

None known.

**1.3 Details of the supplier of the safety data sheet**

**Company** NIES GmbH Elektro-Apparatebau  
Postfach 1303  
57237 Netphen / GERMANY  
Phone +49 (0)2738-1025  
Fax +49 (0)2738-2268  
Homepage www.nies.eu  
E-mail info@nies.eu

**Address enquiries to**

**Technical information** info@nies.eu  
**Safety Data Sheet** sdb@chemiebuero.de

**1.4 Emergency telephone number****SECTION 2: Hazards identification****2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]**

Aquatic Acute 1: H400 Very toxic to aquatic life.  
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects.

**2.2 Label elements****Hazard pictograms****Signal word**

WARNING

**Hazard statements**

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.  
P391 Collect spillage.

**2.3 Other hazards****Environmental hazards**

Does not contain any PBT or vPvB substances.

**Other hazards**

Further hazards were not determined with the current level of knowledge.

**SECTION 3: Composition / Information on ingredients****Product-type:**

The product is a mixture.

Range [%]	Substance
30 - 40	Distillates (petroleum), hydrotreated heavy naphthenic CAS: 64742-52-5, EINECS/ELINCS: 265-155-0, EU-INDEX: 649-465-00-7 GHS/CLP: Asp. Tox. 1: H304
1 - 10	Paraffin oils CAS: 8012-95-1, EINECS/ELINCS: 232-384-2 GHS/CLP: Asp. Tox. 1: H304
1 - < 10	Amines, N-tallow alkyltrimethylenedi-, oleates CAS: 61791-53-5, EINECS/ELINCS: 263-186-4 GHS/CLP: Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - STOT RE 2: H373 - Aquatic Acute 1: H400 - Aquatic Chronic 2: H411, M = 10
1 - < 10	Distillates (petroleum), solvent-dewaxed light paraffinic (containing < 3% DMSO-extract) CAS: 64742-56-9, EINECS/ELINCS: 265-159-2, Reg-No.: 01-2119480132-48-XXXX GHS/CLP: Asp. Tox. 1: H304
1 - 10	Copper CAS: 7440-50-8, EINECS/ELINCS: 231-159-6 GHS/CLP: Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 100
1 - 10	Distillates (petroleum), solvent-dewaxed heavy paraffinic (< 3% DMSO Extrakt) CAS: 64742-65-0, EINECS/ELINCS: 265-169-7 GHS/CLP: Asp. Tox. 1: H304
1 - < 2,5	Zinc oxide CAS: 1314-13-2, EINECS/ELINCS: 215-222-5, EU-INDEX: 030-013-00-7, Reg-No.: 01-2119463881-32-XXXX GHS/CLP: Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 1

**Comment on component parts**

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  
For full text of H-statements: see SECTION 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Take off contaminated clothing and wash before reuse.

**Inhalation**

Ensure supply of fresh air.  
In the event of symptoms seek medical treatment.

**Skin contact**

When in contact with the skin, clean with soap and water.  
Consult a doctor if skin irritation persists.

**Eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

**Ingestion**

Seek medical advice immediately.  
Do not induce vomiting.  
Rinse out mouth and give plenty of water to drink.

**4.2 Most important symptoms and effects, both acute and delayed**

Irritant effects

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

Treat symptomatically.

**SECTION 5: Fire-fighting measures****5.1 Extinguishing media**

**Suitable extinguishing media** Foam.  
Dry powder.  
Water spray jet.  
Carbon dioxide.

**Extinguishing media that must not be used** Full water jet.

**5.2 Special hazards arising from the substance or mixture**

Risk of formation of toxic pyrolysis products.  
Nitrogen oxides (NO<sub>x</sub>).  
Fluorine compounds  
Metal oxides.

**5.3 Advice for firefighters**

Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

High risk of slipping due to leakage/spillage of product.  
Use personal protective clothing.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**6.3 Methods and material for containment and cleaning up**

Take up mechanically.  
Dispose of absorbed material in accordance within the regulations.

**6.4 Reference to other sections**

See SECTION 8+13

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

The normal safety precautions for handling chemicals must be observed.

Do not eat, drink, smoke or take drugs at work.  
Use barrier skin cream.  
Wash hands before breaks and after work.  
Take off contaminated clothing and wash before reuse.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep only in original container.  
Prevent penetration into the ground.  
Do not store together with oxidizing agents.  
Do not store together with food and animal food/diet.  
Keep container tightly closed.  
Protect from heat/overheating.

**7.3 Specific end use(s)**

See product use, SECTION 1.2

**SECTION 8: Exposure controls / personal protection****8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

Substance
Distillates (petroleum), hydrotreated heavy naphthenic
CAS: 64742-52-5, EINECS/ELINCS: 265-155-0, EU-INDEX: 649-465-00-7
Long-term exposure: 500 mg/m <sup>3</sup>
Copper
CAS: 7440-50-8, EINECS/ELINCS: 231-159-6
Long-term exposure: 1 mg/m <sup>3</sup> , dusts and mists (as Cu), 0,2mg/m <sup>3</sup> * (fume)
Short-term exposure (15-minute): 2 mg/m <sup>3</sup>
Distillates (petroleum), solvent-dewaxed heavy paraffinic (< 3% DMSO Extrakt)
CAS: 64742-65-0, EINECS/ELINCS: 265-169-7
Long-term exposure: 5 mg/m <sup>3</sup> , oil mist TWA
Paraffin oils
CAS: 8012-95-1, EINECS/ELINCS: 232-384-2
Long-term exposure: 5 mg/m <sup>3</sup> , oil mist TWA
Distillates (petroleum), solvent-dewaxed light paraffinic (containing < 3% DMSO-extract)
CAS: 64742-56-9, EINECS/ELINCS: 265-159-2, Reg-No.: 01-2119480132-48-XXXX
Long-term exposure: 1200 mg/m <sup>3</sup>

**DNEL**

Substance
Zinc oxide, CAS: 1314-13-2
Industrial, inhalative, Long-term - local effects: 0,5 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 83 mg/kg bw/d.
Industrial, inhalative, Long-term - systemic effects: 5 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 0,83 mg/kg bw/d.
general population, inhalative, Long-term - systemic effects: 2,5 mg/m <sup>3</sup> .
general population, dermal, Long-term - systemic effects: 83 mg/kg bw/d.
Distillates (petroleum), solvent-dewaxed light paraffinic (containing < 3% DMSO-extract), CAS: 64742-56-9
Industrial, inhalative (vapor), Long-term - local effects: 5,6 mg/m <sup>3</sup> .
general population, inhalative (vapor), Long-term - local effects: 1,2 mg/m <sup>3</sup> .

**PNEC**

Substance
Zinc oxide, CAS: 1314-13-2
soil, 35,6 mg/kg dw.
sediment (seawater), 56,5 mg/kg dw.
sediment (freshwater), 117,8 mg/kg dw.
sewage treatment plants (STP), 100 µg/L.
seawater, 6,1 µg/L.
freshwater, 20,6 µg/L.
Distillates (petroleum), solvent-dewaxed light paraffinic (containing < 3% DMSO-extract), CAS: 64742-56-9
oral (food), 9,33 mg/kg food.

**8.2 Exposure controls**

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0,4mm Butyl rubber, >120 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Protective clothing.
<b>Other</b>	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	Not required under normal conditions.
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>Form</b>	pasty
<b>Color</b>	brown
<b>Odor</b>	characteristic
<b>Odour threshold</b>	not applicable
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	not applicable
<b>Flash point [°C]</b>	not applicable
<b>Flammability (solid, gas) [°C]</b>	not applicable
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not determined
<b>Density [g/ml]</b>	1,18 (20 °C / 68,0 °F)
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	insoluble
<b>Partition coefficient [n-octanol/water]</b>	not determined
<b>Viscosity</b>	not applicable
<b>Relative vapour density determined in air</b>	not applicable
<b>Evaporation speed</b>	not applicable
<b>Melting point [°C]</b>	not determined
<b>Autoignition temperature [°C]</b>	not self-igniting
<b>Decomposition temperature [°C]</b>	not determined

**9.2 Other information**

none

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No dangerous reactions known if used as directed.

## 10.2 Chemical stability

If product is heated above decomposition temperature toxic vapours may be released.

## 10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

## 10.4 Conditions to avoid

See SECTION 7.2.

## 10.5 Incompatible materials

Oxidizing agent

## 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product
ATE-mix, inhalation (vapour ), > 20 mg/l 4h.
ATE-mix, dermal, > 2000 mg/kg.
ATE-mix, oral, > 2000 mg/kg.
Substance
Zinc oxide, CAS: 1314-13-2
LD50, dermal, Rat: > 2000 mg/kg bw.
LD50, oral, Rat: > 15000 mg/kg (IUCLID).
LC50, inhalative, Rat: > 5,7 mg/l (4 h) (Lit.).
Distillates (petroleum), solvent-dewaxed light paraffinic (containing < 3% DMSO-extract), CAS: 64742-56-9
Mutagenität (OECD 471/473/476): negativ.
LD50, oral, Rat: >5000 mg/kg bw (OECD 401).
LD50, dermal, Rabbit: >5000 mg/kg bw (OECD 403).
LC50, inhalative, Rat: >5,53 mg/l air (OECD 403).
NOAEL, dermal, Rat: >2000 mg/kg bw (OECD 414).
NOAEL, oral, Rat: >1000 mg/kg bw (OECD 421).
Paraffin oils, CAS: 8012-95-1
LD50, oral, Rat: 24000 mg/kg bw (GESTIS).
Distillates (petroleum), solvent-dewaxed heavy paraffinic (< 3% DMSO Extrakt), CAS: 64742-65-0
LD50, oral, Rat: > 5000 mg/kg.
LD50, dermal, Rabbit: > 5000 mg/kg.
LC50, inhalative, Rat: > 5 mg/l/4h.
Copper, CAS: 7440-50-8
LD50, dermal, Rat: > 2000 mg/kg.
LD50, oral, Rat: > 2500 mg/kg.
LC50, inhalative, Rat: > 5,11 mg/L 4h.
Distillates (petroleum), hydrotreated heavy naphthenic, CAS: 64742-52-5
LD50, oral, Rat: > 5000 mg/kg OECD 401.
LD50, dermal, Rabbit: > 5000 mg/kg OECD 402.
LC50, inhalativ (mist), Rat: > 5,53 mg/l 4h OECD 403.
Amines, N-tallow alkyltrimethylenedi-, oleates , CAS: 61791-53-5
LD10, dermal, Rat: > 2000 mg/kg OECD 402.
LD10, oral, Rat: > 5000 mg/kg.

<b>Serious eye damage/irritation</b>	Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
<b>Skin corrosion/irritation</b>	Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
<b>Respiratory or skin sensitisation</b>	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
<b>Specific target organ toxicity — single exposure</b>	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
<b>Specific target organ toxicity — repeated exposure</b>	Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
<b>Mutagenicity</b>	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.

<b>Reproduction toxicity</b>	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
<b>Carcinogenicity</b>	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
<b>Aspiration hazard</b>	Based on the available information, the classification criteria are not fulfilled.
<b>General remarks</b>	none

**SECTION 12: Ecological information****12.1 Toxicity**

Substance
Zinc oxide, CAS: 1314-13-2
EC50, (72h), Selenastrum capricornutum: 0,17 mg/l (Lit.).
Distillates (petroleum), solvent-dewaxed light paraffinic (containing < 3% DMSO-extract), CAS: 64742-56-9
EL50, (24h), Daphnia magna: >10000 mg/l (OECD 202).
LL50, (96h), Pimephales promelas: >100 mg/l (OECD 203).
NOEL, (21d), Daphnia magna: 10 mg/l (OECD 211).
NOEL, (72h), Pseudokirchneriella subcapitata: >100 mg/l (OECD 201).
Distillates (petroleum), solvent-dewaxed heavy paraffinic (< 3% DMSO Extrakt), CAS: 64742-65-0
NOEC, fish: > 100 mg/l.
LL50, (96h), fish: > 100 mg/l.
LL50, (72h), Algae: > 100 mg/l.
LL50, (48h), Daphnia sp.: > 100 mg/l.
Copper, CAS: 7440-50-8
LC50, (96h), fish: 8,1 µg/L.
EC50, (72h), Chlorella vulgaris: 0,333 mg/L.
EC50, (48h), Daphnia magna: 0,792 mg/L.
NOEC, Oncorhynchus mykiss: 1 µg/L.
Distillates (petroleum), hydrotreated heavy naphthenic, CAS: 64742-52-5
EL50, (48h), Daphnia magna: > 10 000 mg/L.
EL50, (72h), Pseudokirchneriella subcapitata: > 100 mg/L.
NOEC, (21d), Daphnia magna: 10 mg/L.
NOELR, (72h), Pseudokirchneriella subcapitata: 100 mg/L.
LL50, (96h), Pimephales promelas: > 100 mg/L.
Amines, N-tallow alkyltrimethylenedi-, oleates, CAS: 61791-53-5
LC50, (96h), Danio rerio: > 0,1 - 1 mg/L.
EC50, (48h), Daphnia magna: > 0,1 - 1 mg/L.
EC50, (72h), Algae: > 0,01 - 0,1 mg/L.
NOEC, (72h), Algae: > 0,01 - 0,1 mg/L OECD 201.

**12.2 Persistence and degradability**

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	not determined

**12.3 Bioaccumulative potential**

Accumulation in organisms is not expected.



#### 12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

#### 12.6 Other adverse effects

None known.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

##### Product

Coordinate disposal with the authorities if necessary.  
Disposal in an incineration plant in accordance with the regulations of the local authorities.

**Waste no. (recommended)** 070604\*

##### Contaminated packaging

Uncontaminated packaging may be reused.  
Packaging that cannot be cleaned should be disposed of as for product.

**Waste no. (recommended)** 150110\*  
150102

### SECTION 14: Transport information

#### 14.1 UN number

**Transport by land according to ADR/RID** 3077

**Inland navigation (ADN)** 3077

**Marine transport in accordance with IMDG** 3077

**Air transport in accordance with IATA** 3077

NIES GmbH Elektro-Apparatebau

57237 Netphen

Date printed 06.07.2018, Revision 25.06.2018

Version 04. Supersedes version: 03

Page 10 / 13

**14.2 UN proper shipping name****Transport by land according to ADR/RID**

Environmentally hazardous substance, solid, n.o.s. (Amines, N-tallow alkyltrimethylenedi-, dioleates, Copper)

- Classification Code

M7

- Label



- ADR LQ

5 kg

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

**Inland navigation (ADN)**

Environmentally hazardous substance, solid, n.o.s. (Amines, N-tallow alkyltrimethylenedi-, dioleates, Copper)

- Classification Code

M7

- Label

**Marine transport in accordance with IMDG**

Environmentally hazardous substance, solid, n.o.s. (Amines, N-tallow alkyltrimethylenedi-, dioleates, Copper)

- EMS

F-A, S-F

- Label



- IMDG LQ

5 kg

**Air transport in accordance with IATA**

Environmentally hazardous substance, solid, n.o.s. (Amines, N-tallow alkyltrimethylenedi-, dioleates, Copper)

- Label

**14.3 Transport hazard class(es)****Transport by land according to ADR/RID**

9

**Inland navigation (ADN)**

9

**Marine transport in accordance with IMDG**

9

**Air transport in accordance with IATA** 9**14.4 Packing group****Transport by land according to ADR/RID**

III

**Inland navigation (ADN)**

III

**Marine transport in accordance with IMDG**

III

**Air transport in accordance with IATA** III



**16.2 Abbreviations and acronyms:**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
 ATE = acute toxicity estimate  
 CAS = Chemical Abstracts Service  
 CLP = Classification, Labelling and Packaging  
 DMEL = Derived Minimum Effect Level  
 DNEL = Derived No Effect Level  
 EC50 = Median effective concentration  
 ECB = European Chemicals Bureau  
 EEC = European Economic Community  
 EINECS = European Inventory of Existing Commercial Chemical Substances  
 ELINCS = European List of Notified Chemical Substances  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 IC50 = Inhibition concentration, 50%  
 IMDG = International Maritime Code for Dangerous Goods  
 IUCLID = International Uniform Chemical Information Database  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 LC0 = lethal concentration, 0%  
 LOAEL = lowest-observed-adverse-effect level  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
 NOAEL = No Observed Adverse Effect Level  
 NOEC = No Observed Effect Concentration  
 PBT = Persistent, Bioaccumulative and Toxic substance  
 PNEC = Predicted No-Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 STP = Sewage Treatment Plant  
 TLV@/TWA = Threshold limit value – time-weighted average  
 TLV@STEL = Threshold limit value – short-time exposure limit  
 VOC = Volatile Organic Compounds  
 vPvB = very Persistent and very Bioaccumulative

**16.3 Other information****Classification procedure**

Aquatic Acute 1: H400 Very toxic to aquatic life. (Calculation method)  
 Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (Calculation method)

**Modified position**

SECTION 2 been added: P391 Collect spillage.  
 SECTION 2 deleted: P280 Wear protective gloves / eye protection.  
 SECTION 2 deleted: P337+P313 If eye irritation persists: Get medical advice / attention.  
 SECTION 2 deleted: Eye Irrit. 2  
 SECTION 2 deleted: H319 Causes serious eye irritation.  
 SECTION 2 deleted: Skin Irrit. 2  
 SECTION 2 deleted: H315 Causes skin irritation.  
 SECTION 8 been added: Protect the environment by applying appropriate control measures to prevent or limit emissions.  
 SECTION 8 been added: Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.  
 SECTION 9 been added: not self-igniting  
 SECTION 12 been added: Spillages may penetrate the soil causing ground water contamination.  
 SECTION 15 deleted: Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.



Copyright: Chemiebüro®