

# Safety Data Sheet

## Nordflex NT-B 0102



Safety Data Sheet dated 30/5/2015, version 1

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

#### 1.1. Product identifier

Mixture identification:  
Trade name: Nordflex NT-B 0102  
Trade code: NT-B 0102

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

Matt synthetic nitro-cellulose enamel for industrial use.  
Only for professional use.  
Not for autobody shop use.

#### 1.3. Details of the supplier of the safety data sheet

Company:  
Ind. Chimica Reggiana I.C.R. Spa  
Via Gasparini, 7 42124 REGGIO EMILIA Italia  
Tel. +39 0522/517803 Fax +39 0522/514384

Competent person responsible for the safety data sheet:

sdsre@icrsprint.it

#### 1.4. Emergency telephone number

Tel. +39 0522-517803

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

F Highly flammable  
 Xn Harmful  
 Xi Irritant

R Phrases:

R11 Highly flammable.  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R36/38 Irritating to eyes and skin.

EC regulation criteria 1272/2008 (CLP):

DANGER, Flam. Liq. 2, Highly flammable liquid and vapour.  
 WARNING, Skin Irrit. 2, Causes skin irritation.  
 DANGER, Eye Dam. 1, Causes serious eye damage.  
 WARNING, STOT SE 3, May cause respiratory irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

Symbols:

Xn Harmful  
 F Highly flammable

R Phrases:

R11 Highly flammable.  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R36/38 Irritating to eyes and skin.

S Phrases:

S23 Do not breathe spray  
S25 Avoid contact with eyes.  
S29 Do not empty into drains.  
S36/37 Wear suitable protective clothing and gloves.  
S51 Use only in well-ventilated areas.  
S7/9 Keep container tightly closed and in a well-ventilated place.

Symbols:



DANGER

Hazard statements:

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P260 Do not breathe vapours or spray.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or a doctor.

P370+P378 In case of fire: Use ... to extinguish.

### Special Provisions:

None

### Contents:

Xylene

butan-1-ol; n-butanol

4-hydroxy-4-methylpentan-2-one; diacetone alcohol

2-methylpropan-1-ol; iso-butanol

### Special provisions according to Annex XVII of REACH and subsequent amendments:

Restricted to professional users.

### 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

### Other Hazards:

No other hazards

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

>= 20% - < 25% Isobutyl acetate

REACH No.: 01-2119488971-22, Index number: 607-026-007, CAS: 110-19-0, EC: 203-745-1

F; R66-11; substance with a Community workplace exposure limit

⚠ 2.6/3 Flam. Liq. 3 H226

>= 7% - < 10% Xylene

REACH No.: 01-2119488216-32, Index number: 601-022-01-6, CAS: 1330-20-7, EC: 215-535-7

Xn,Xi; R36/37/38-48/20-65-10-20/21

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.1/4/Inhal Acute Tox. 4 H332

⚠ 3.1/4/Dermal Acute Tox. 4 H312

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H335

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.9/2 STOT RE 2 H373

⚠ 3.10/1 Asp. Tox. 1 H304

>= 7% - < 10% 2-butoxyethanol; ethylene glycol monobutyl ether

REACH No.: 01-2119475108-36, Index number: 603-014-00-0, CAS: 111-76-2, EC: 203-905-0

Xn,Xi; R20/21/22-36/38

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.1/4/Dermal Acute Tox. 4 H312

⚠ 3.1/4/Inhal Acute Tox. 4 H332

>= 5% - < 7% butan-1-ol; n-butanol

REACH No.: 01-2119484630-38, Index number: 603-004-00-6, CAS: 71-36-3, EC: 200-751-6

Xn,Xi; R10-22-37/38-41-67

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.8/3 STOT SE 3 H335

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/1 Eye Dam. 1 H318

⚠ 3.8/3 STOT SE 3 H336

⚠ 3.1/4/Oral Acute Tox. 4 H302

>= 3% - < 5% cellulose nitrate

Index number: 603-037-01-3, CAS: 9004-70-0

E,F; R11-3

⚠ 2.1/1.1 Expl. 1.1 H201

>= 3% - < 5% 4-hydroxy-4-methylpentan-2-one; diacetone alcohol

REACH No.: 01-2119473975-21, Index number: 603-016-00-1, CAS: 123-42-2, EC: 204-626-7

Xi; R36/37

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H335

>= 3% - < 5% 2-methoxy-1-methylethyl acetate

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REACH No.: 01-2119475791-29, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9  
R66-10; substance with a Community workplace exposure limit  
⚠ 2.6/3 Flam. Liq. 3 H226

>= 3% - < 5% n-butyl acetate  
REACH No.: 01-219485493-29, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1  
R10-66-67; substance with a Community workplace exposure limit  
⚠ 2.6/3 Flam. Liq. 3 H226  
⚠ 3.8/3 STOT SE 3 H336  
EUH066

>= 1% - < 3% 2-methylpropan-1-ol; iso-butanol  
REACH No.: 01-2119484609-23, Index number: 603-108-00-1, CAS: 78-83-1, EC: 201-148-0  
Xi; R10-37/38-41-67  
⚠ 2.6/3 Flam. Liq. 3 H226  
⚠ 3.8/3 STOT SE 3 H336  
⚠ 3.2/2 Skin Irrit. 2 H315  
⚠ 3.3/1 Eye Dam. 1 H318  
⚠ 3.8/3 STOT SE 3 H336

>= 0.25% - < 0.5% ethylbenzene  
REACH No.: 01-2119489370-35, Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4  
F,Xn; R11-20-48/20-65  
⚠ 2.6/2 Flam. Liq. 2 H225  
⚠ 3.1/4/Inhal Acute Tox. 4 H332  
⚠ 3.9/2 STOT RE 2 H373  
⚠ 3.10/1 Asp. Tox. 1 H304

>= 0.1% - < 0.25% Solvent naphtha (petroleum), light arom.  
REACH No.: 01-2119455851-35, Index number: 649-356-00-4, CAS: 64742-95-6, EC: 265-199-0  
Xn,Xi,N; R66-67-10-37-51/53-65  
⚠ 2.6/3 Flam. Liq. 3 H226  
⚠ 3.8/3 STOT SE 3 H335  
⚠ 3.8/3 STOT SE 3 H336  
⚠ 4.1/C2 Aquatic Chronic 2 H411  
⚠ 3.10/1 Asp. Tox. 1 H304  
EUH066  
DECLP\*  
DECL\*  
DECLP (CLP)\*

\*DECLP: Substance classified accordingly to Note P of the Annex I of directive 67/548/EEC. The 'Carcinogenic' classification is not necessary if you can demonstrate that the substance contains less than 0.1% weight/weight of benzene

\*DECL: Classified accordingly to directive 67/548/EEC

\*DECLP (CLP): This substance is classified in accordance with Note P, Annex VI of EC Regulation 1272/2008. The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

##### In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

##### In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

Give nothing to eat or drink.

##### In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

#### 4.2. Most important symptoms and effects, both acute and delayed

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See section 11 for known symptoms and effects.

- 4.3. Indication of any immediate medical attention and special treatment needed  
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).  
Treatment:  
None

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### SECTION 5: Firefighting measures

- 5.1. Extinguishing media  
Suitable extinguishing media:  
CO2 or Dry chemical fire extinguisher.  
Extinguishing media which must not be used for safety reasons:  
Do not use water jets. Water may not be effective fire fighting measure, however it can be used to cool closed containers close to flames as to avoid bursting and exploding.
- 5.2. Special hazards arising from the substance or mixture  
Do not inhale explosion and combustion gases.  
Burning produces heavysmoke.
- 5.3. Advice for firefighters  
Use suitable breathing apparatus .  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Move undamaged containers from immediate hazard area if it can be done safely.

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### SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures  
Wear personal protection equipment.  
Remove all sources of ignition.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Provide adequate ventilation.  
Use appropriate respiratory protection.  
See protective measures under point 7 and 8.
- 6.2. Environmental precautions  
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.
- 6.4. Reference to other sections  
See also section 8 and 13

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### SECTION 7: Handling and storage

- 7.1. Precautions for safe handling  
Avoid contact with skin and eyes, inhalation of vapours and mists.  
Use localized ventilation system.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities  
Always keep the containers tightly closed.  
Always keep in a well ventilated place.  
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.  
Keep away from food, drink and feed.  
Instructions as regards storage premises:  
Cool and adequately ventilated.
- 7.3. Specific end use(s)  
See Point 1.2.

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### SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters  
Isobutyl acetate - CAS: 110-19-0  
EU - LTE(8h): 275 mg/m<sup>3</sup>, 50 ppm - STE: 550 mg/m<sup>3</sup>, 100 ppm  
ACGIH - LTE(8h): 150 ppm - Notes: Eye and URT irr
- Xylene - CAS: 1330-20-7  
ICR1 - LTE(8h): 221 mg/m<sup>3</sup>, 50 ppm - STE(): 442 mg/m<sup>3</sup>, 100 ppm - Notes: Assorbito attraverso la pelle  
EU - LTE(8h): 221 mg/m<sup>3</sup>, 50 ppm - STE: 442 mg/m<sup>3</sup>, 100 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)  
ACGIH - LTE(8h): 100 ppm - STE: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair
- 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2  
ICR1 - LTE(8h): 98 mg/m<sup>3</sup>, 20 ppm - STE(): 246 mg/m<sup>3</sup>, 50 ppm - Notes: Pelle

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EU - LTE(8h): 98 mg/m<sup>3</sup>, 20 ppm - STE: 246 mg/m<sup>3</sup>, 50 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)  
ACGIH - LTE(8h): 20 ppm - Notes: A3, BEI - Eye and URT irr

butan-1-ol; n-butanol - CAS: 71-36-3  
EU - LTE(8h): 20 ppm  
ACGIH - LTE(8h): 20 ppm - Notes: Eye and URT irr

4-hydroxy-4-methylpentan-2-one; diacetone alcohol - CAS: 123-42-2  
ACGIH - LTE(8h): 50 ppm - Notes: URT and eye irr

2-methoxy-1-methylethyl acetate - CAS: 108-65-6  
ICR1 - LTE(8h): 275 mg/m<sup>3</sup>, 50 ppm - STE: 550 mg/m<sup>3</sup>, 100 ppm - Notes: H  
EU - LTE(8h): 275 mg/m<sup>3</sup>, 50 ppm - STE: 550 mg/m<sup>3</sup>, 100 ppm - Notes: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

n-butyl acetate - CAS: 123-86-4  
EU - LTE(8h): 150 ppm - STE(): 200 ppm  
ACGIH - LTE(8h): 150 ppm - STE: 200 ppm - Notes: Eye and URT irr

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1  
ACGIH - LTE(8h): 50 ppm - Notes: Skin and eye irr

ethylbenzene - CAS: 100-41-4  
ICR1 - LTE(8h): 442 mg/m<sup>3</sup>, 100 ppm - STE(): 884 mg/m<sup>3</sup>, 200 ppm - Notes: Pelle  
EU - LTE(8h): 442 mg/m<sup>3</sup>, 100 ppm - STE: 884 mg/m<sup>3</sup>, 200 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)  
ACGIH - LTE(8h): 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair

Solvent naphtha (petroleum), light arom. - CAS: 64742-95-6  
EU - LTE(8h): 100 mg/m<sup>3</sup>, 19 ppm

**DNEL Exposure Limit Values**  
Xylene - CAS: 1330-20-7  
Worker Professional: 289 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects  
Worker Professional: 180 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 77 mg/m<sup>3</sup> - Consumer: 14.8 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2  
Worker Professional: 75 mg/kg - Consumer: 38 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 98 mg/m<sup>3</sup> - Consumer: 49 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 3.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

butan-1-ol; n-butanol - CAS: 71-36-3  
Worker Professional: 310 mg/m<sup>3</sup> - Consumer: 55 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Consumer: 3125 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

4-hydroxy-4-methylpentan-2-one; diacetone alcohol - CAS: 123-42-2  
Worker Professional: 9.4 mg/kg - Consumer: 3.4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 66.4 mg/m<sup>3</sup> - Consumer: 11.8 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 3.4 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

2-methoxy-1-methylethyl acetate - CAS: 108-65-6  
Worker Professional: 153.5 mg/kg - Consumer: 54.8 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 275 mg/m<sup>3</sup> - Consumer: 33 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

n-butyl acetate - CAS: 123-86-4  
Consumer: 102.34 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Worker Professional: 960 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects  
Worker Professional: 960 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects  
Worker Professional: 480 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Professional: 480 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1  
Worker Professional: 310 mg/m<sup>3</sup> - Consumer: 55 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Consumer: 25 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

**PNEC Exposure Limit Values**  
Xylene - CAS: 1330-20-7  
Target: STP - Value: 6.58 mg/l  
Target: Marine water - Value: 0.327 mg/l  
Target: Intermittent emissions - Value: 0.327 mg/l  
Target: Freshwater sediments - Value: 12.46 mg/kg  
Target: Marine water sediments - Value: 12.46 mg/kg  
Target: Soil - Value: 2.31 mg/kg  
Target: Fresh Water - Value: 0.327 mg/l

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

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Target: Purification plant - Value: 463 mg/l  
Target: Freshwater sediments - Value: 34.6 mg/kg  
Target: Marine water sediments - Value: 3.46 mg/kg  
Target: Soil - Value: 3.13 mg/kg  
Target: Intermittent emissions - Value: 9.1 mg/l  
butan-1-ol; n-butanol - CAS: 71-36-3  
Target: Marine water sediments - Value: 0.0178 mg/kg  
Target: Soil - Value: 0.015 mg/kg  
Target: Fresh Water - Value: 0.082 mg/l  
Target: Marine water - Value: 0.0082 mg/l  
Target: Intermittent emissions - Value: 2.25 mg/l  
Target: Freshwater sediments - Value: 0.178 mg/kg  
4-hydroxy-4-methylpentan-2-one; diacetone alcohol - CAS: 123-42-2  
Target: Freshwater sediments - Value: 9.06 mg/kg  
Target: Marine water sediments - Value: 0.91 mg/kg  
Target: Soil - Value: 0.63 mg/kg  
Target: Fresh Water - Value: 2 mg/l  
Target: Marine water - Value: 0.2 mg/l  
Target: Intermittent emissions - Value: 1 mg/l  
Target: Purification plant - Value: 82 mg/l  
2-methoxy-1-methylethyl acetate - CAS: 108-65-6  
Target: Intermittent emissions - Value: 100 mg/l  
Target: Freshwater sediments - Value: 3.29 mg/kg  
Target: Marine water sediments - Value: 0.329 mg/kg  
Target: Soil - Value: 0.29 mg/kg  
Target: Fresh Water - Value: 0.635 mg/l  
Target: Marine water - Value: 0.0635 mg/l  
n-butyl acetate - CAS: 123-86-4  
Target: STP - Value: 35.6 mg/l  
Target: Fresh Water - Value: 0.18 mg/l  
Target: Marine water - Value: 0.018 mg/l  
Target: Intermittent emissions - Value: 0.36 mg/l  
Target: Freshwater sediments - Value: 0.981 mg/kg  
Target: Marine water sediments - Value: 0.0981 mg/kg  
Target: Soil - Value: 0.0903 mg/kg  
2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1  
Target: Marine water sediments - Value: 0.152 mg/kg  
Target: Soil - Value: 0.0699 mg/kg  
Target: Fresh Water - Value: 0.4 mg/l  
Target: Marine water - Value: 0.04 mg/l  
Target: Intermittent emissions - Value: 11 mg/l  
Target: Purification plant - Value: 10 mg/l  
Target: Freshwater sediments - Value: 1.52 mg/kg

### 8.2. Exposure controls

#### Eye protection:

Use face-mask or close fitting safety goggles (e.g. EN166 F3). Do not wear contact lenses.

#### Protection for skin:

Wear safety clothing that ensure full skin protection in accordance to EN 14605 Type 4 in case of spills or spray (e.g. Tyrek). Please note: safety clothing must be changed immediately if it comes in contact with product.

#### Protection for hands:

Use protective PVC or rubber gloves that provides comprehensive protection, EN374 Class 3 (B-F-I). Permeation time > 60 minutes; 0.4 mm thickness.

#### Respiratory protection:

Use adequate protective respiratory devices, using Filter "A" (Brown colour) for organic gas and vapors with boiling points over 65°C.

#### Thermal Hazards:

None

#### Environmental exposure controls:

Emissions from ventilation systems or from work processes must be check as to ensure compliance to environmental protection legislation. In some cases the addition of vapour scrubbers, filters or other system modification may be necessary in order to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance and colour:	Transparent liquid
Odour:	Typical of solvent
Odour threshold:	N.D.
pH:	N.A. (organic solvent)
Melting point / freezing point:	N.D.
Initial boiling point and boiling range:	118 °C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.D.



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Vapour density:	N.D.
Flash point:	17,8 °C
Evaporation rate:	N.D.
Vapour pressure:	16,7 hPa
Relative density:	1,07 ± 0,05 g/cm <sup>3</sup>
Solubility in water:	Insoluble
Solubility in oil:	N.D.
Auto-ignition temperature:	N.D.
Decomposition temperature:	N.D.
Viscosity:	N.D.
Explosive properties:	N.D.
Oxidizing properties:	N.D.

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions

#### 10.2. Chemical stability

Stable under recommended use and storage conditions (see point 7).

#### 10.3. Possibility of hazardous reactions

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth), and nitrides.

It may catch fire on contact with oxidising mineral acids, powerful oxidising agents, and powerful reducing agents.

#### 10.4. Conditions to avoid

Avoid accumulating electrostatic charge.

#### 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

#### 10.6. Hazardous decomposition products

None.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

Isobutyl acetate - CAS: 110-19-0

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 35.7 mg/l

Test: LD50 - Route: Oral - Species: Rat = 8500 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/l

Xylene - CAS: 1330-20-7

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 6350 Ppm - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 4350 mg/kg

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 2-20 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 200-2000 mg/kg

Test: LD50 - Route: Skin - Species: Rat = 400-2000 mg/kg

butan-1-ol; n-butanol - CAS: 71-36-3

a) acute toxicity:

Test: LC50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 5 mg/l - Duration: 4h

4-hydroxy-4-methylpentan-2-one; diacetone alcohol - CAS: 123-42-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3002 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 1875 mg/kg

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 35.7 mg/l

Test: LD50 - Route: Oral - Species: Rat = 8500 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/l

n-butyl acetate - CAS: 123-86-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 6400 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 21.1 mg/l - Duration: 4h

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 18.18 mg/l - Duration: 6H

Test: LD50 - Route: Oral - Species: Rat > 2830 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

ethylbenzene - CAS: 100-41-4

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- a) acute toxicity:  
Test: LC50 - Route: Inhalation - Species: Mouse = 35500 mg/m<sup>3</sup>  
Test: LC50 - Route: Inhalation - Species: Rat = 55000 mg/m<sup>3</sup>  
Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg  
Solvent naphtha (petroleum), light arom. - CAS: 64742-95-6
- a) acute toxicity:  
Test: LC50 - Route: Inhalation - Species: Rat > 6193 mg/m<sup>3</sup>  
Test: LD50 - Route: Oral - Species: Rat = 3592 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;  
b) skin corrosion/irritation;  
c) serious eye damage/irritation;  
d) respiratory or skin sensitisation;  
e) germ cell mutagenicity;  
f) carcinogenicity;  
g) reproductive toxicity;  
h) STOT-single exposure;  
i) STOT-repeated exposure;  
j) aspiration hazard.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Solvent naphtha (petroleum), light arom. - CAS: 64742-95-6

#### a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 3.2 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 2.9 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 9.2 mg/l

Endpoint: EC50 - Species: Algae = 1 mg/l - Notes: NOEC

#### 12.2. Persistence and degradability

Not persistent.

#### 12.3. Bioaccumulative potential

Not bioaccumulative

#### 12.4. Mobility in soil

Do not mix with waste water, rain or surface water. Floats on water, evaporates from liquid and solid surfaces but a significant amount may penetrate and pollute water table.

#### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

#### 12.6. Other adverse effects

None

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

The empty containers must be considered special waste materials to take to dump of type 2B. If previously cleansed, they can be admitted in first class dumps.

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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### SECTION 14: Transport information

Limited quantities, not subject to ADR norms for internal packaging of up to 5 litres and maximum packaging of 30kg.

#### 14.1. UN number

ADR-UN number: 1263

IMDG-Un number: 1263

#### 14.2. UN proper shipping name

Shipping name: Paints

#### 14.3. Transport hazard class(es)

ADR/RID:

Class: 3

Label: 3

Classification Code: F1

Maritime (IMDG/IMO):

Class: 3.2

Label: 3

#### 14.4. Packing group

ADR Packing Group: II

IMDG-Packing group: II

#### 14.5. Environmental hazards

Marine pollutant: No

#### 14.6. Special precautions for user

IMDG-EMS: F- , S-E



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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
No

### SECTION 15: Regulatory information

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

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)

Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Dir. 2006/8/EC

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 453/2010 (Annex I)

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Volatile Organic compounds - VOCs = 600.39 g/Kg= 642.41 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.38

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

15.2. Chemical safety assessment

No

### SECTION 16: Other information

Text of phrases referred to under heading 3:

R10 Flammable.

R11 Highly flammable.

R20 Harmful by inhalation.

R20/21 Harmful by inhalation and in contact with skin.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R22 Harmful if swallowed.

R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.

R36/37 Irritating to eyes and respiratory system.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R37 Irritating to respiratory system.

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H312 Harmful in contact with skin.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

H304 May be fatal if swallowed and enters airways.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H201 Explosive; mass explosion hazard.

EUH066 Repeated exposure may cause skin dryness or cracking.

H225 Highly flammable liquid and vapour.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU.

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# Safety Data Sheet

## Nordflex NT-B 0102

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
N.A.:	Not applicable.
N.D.:	Not determined.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

