

**NOVANIK 1010**

Version: 5.00

Revision Date 23.09.2019

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

| | |
|------------|--------------|
| Trade name | NOVANIK 1010 |
|------------|--------------|

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

| | |
|----------------------|--------------------|
| Use | Industrial use |
| Uses advised against | anti-foaming agent |

1.3 Details of the supplier of the safety data sheet

| | |
|---------|---|
| Company | Slovec, Sasol Slovakia, spol. s r.o. Mostová 2 811 02 Bratislava Slovak Republic |
|---------|---|

| |
|----------------------------|
| Telephone: +421 2 54430219 |
| Telefax: +421 2 54430315 |

| | |
|-------------------------------|--|
| Information (Product safety): | Telephone: +421 46 546 1204 Telefax: +421 46 546 1144 |
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| | |
|----------------|------------------------------|
| E-mail address | msds-info.italy@it.sasol.com |
|----------------|------------------------------|

1.4 Emergency telephone number

| | |
|----------------------------|---|
| Emergency telephone number | +421 902 899981; +421 25 477 4166 National Toxicological Information Centre (24 hours) |
|----------------------------|---|

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

2.2 Label elements

Not a hazardous substance or mixture.

2.3 Other hazards

No hazards to be specially mentioned.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a substance in the meaning of regulation (EC) 1907/2006.

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CHEMICAL CHARACTERIZATION**polymer of ethylene oxide and propylene oxide****content:** >= 90 - <= 100 %**component type:** Active ingredient**EC-No.:****Index-No.:****CAS-No.:** 9003-11-6**REACH No.:** Not relevant (polymer)**COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES**

No dangerous ingredients according to Regulation (EC) No. 1907/2006

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

| | |
|--------------------------------|--|
| General advice | No hazards which require special first aid measures. |
| If inhaled | Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician. |
| In case of skin contact | Wash off with soap and water. |
| In case of eye contact | Rinse with plenty of water. |
| If swallowed | Consult a physician if necessary. Rinse mouth. |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|--|-------------------------------------|
| Most important symptoms and effects, both acute and delayed | Symptoms: No information available. |
| | Risks: No information available. |

4.3 Indication of any immediate medical attention and special treatment needed

| | |
|---|--------------------------------------|
| Indication of any immediate medical attention and special treatment needed | Treatment: No information available. |
|---|--------------------------------------|

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

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| Suitable extinguishing media | Water, Foam, Dry powder, Carbon dioxide (CO ₂) |
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5.2 Special hazards arising from the substance or mixture

| | |
|---|---|
| Specific hazards during firefighting | Dangerous gases or fumes may occur in case of fire. |
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5.3 Advice for firefighters

| | |
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| Special protective equipment for firefighters | Wear self-contained breathing apparatus for firefighting if necessary. |
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Further information

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions Handle in accordance with good industrial hygiene and safety practice.

Special precautions Forms slippery/greasy layers with water.

6.2 Environmental precautions

Environmental precautions Avoid subsoil penetration.
Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

Advice on safe handling No special technical protective measures required.

Advice on protection against fire and explosion Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers No special storage conditions required.

Storage class (TRGS 510) 10-13: German Storage Class 10 to 13

Other data Protect from frost, heat and sunlight.

7.3 Specific end use(s)

Specific use(s) This information is not available.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters**COMPONENTS WITH WORKPLACE CONTROL PARAMETERS****National occupational exposure limits**

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)**Substance name: polymer of ethylene oxide and propylene oxide**

No data available

PREDICTED NO EFFECT CONCENTRATION (PNEC)**Substance name: polymer of ethylene oxide and propylene oxide**

No data available

8.2 Exposure controls**PERSONAL PROTECTIVE EQUIPMENT**

| | |
|---------------------------------|--|
| Respiratory protection | No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141. |
| Hand protection | Coordinate hand protection with other chemicals used. Preventive hand protection is recommended., Use barrier cream regularly. |
| Eye protection | Safety glasses |
| Skin and body protection | Wear suitable protective equipment. |
| Hygiene measures | General industrial hygiene practice. |
| Protective measures | No special protective equipment required. |

ENVIRONMENTAL EXPOSURE CONTROLS

| | |
|-----------------------|---|
| General advice | Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. |
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | liquid; 25 °C; 1.013 hPa |
| Form | Liquid |
| Colour | light yellow |
| Odour | odourless |
| Odour Threshold | No valid method available. |
| pH | 6,5 - 8,5; 1 % active substance; 20 °C; STN EN 1262 |
| Pour point | -36 - -29 °C; 1.013 hPa; STN 65 6072 |
| Boiling point/boiling range | > 250 °C; 1.013 hPa; Estimated Value |
| Flash point | > 125 °C; 1.013 hPa; Estimated Value |
| Evaporation rate | No data available |
| Flammability (solid, gas) | not applicable (liquid) |
| Lower explosion limit | No data available |
| Upper explosion limit | No data available |
| Vapour pressure | No data available |
| Relative vapour density | > 1 |
| Density | 1,004 - 1,014 g/cm ³ ; 25 °C; 1,013 hPa; STN EN ISO 12185 |
| Relative density | No data available |
| Water solubility | 25 °C; 1.013 hPa; estimated; partly miscible |
| Partition coefficient: n-octanol/water | Not relevant / Not applicable Justification: surface-active substance |
| Ignition temperature | No data available |
| Auto-ignition temperature | not auto-flammable |
| Viscosity, dynamic | ca. 135 mPas; 25 °C; STN EN ISO 3104 |
| Viscosity, kinematic | ca. 134 mm ² /s; 25 °C; (calculated) |
| Explosive properties | not expected based on structure and functional groups |
| Oxidizing properties | not expected based on structure and functional groups |

9.2 Other data

None known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

| | |
|-------------|---|
| Note | Stable at normal ambient temperature and pressure. No decomposition if stored and applied as directed. |
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10.2 Chemical stability

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| | |
|--|---|
| Note | No decomposition if stored and applied as directed. |
| 10.3 Possibility of hazardous reactions | |
| Hazardous reactions | None known. |
| 10.4 Conditions to avoid | |
| Conditions to avoid | Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation. |
| 10.5 Incompatible materials to avoid | |
| Materials to avoid | None known.; |
| 10.6 Hazardous decomposition products | |
| Hazardous decomposition products | No decomposition if stored normally. |
| Thermal decomposition | No decomposition if used as directed. |

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects**Acute toxicity**

| | |
|----------------------------------|--|
| Acute oral toxicity | polymer of ethylene oxide and propylene oxide: LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 401 Category approach Based on available data, the classification criteria are not met. |
| Acute inhalation toxicity | polymer of ethylene oxide and propylene oxide: No data available |
| Acute dermal toxicity | polymer of ethylene oxide and propylene oxide: Based on available data, the classification criteria are not met. Justification: Data are available from alternate exposure routes. The substance or mixture has no acute oral toxicity |

Skin corrosion/irritation

| | |
|------------------------|---|
| Skin irritation | polymer of ethylene oxide and propylene oxide: Rabbit: not irritating; OECD Test Guideline 404 Category approach Based on available data, the classification criteria are not met. |
|------------------------|---|

Serious eye damage/eye irritation

| | |
|-----------------------|---|
| Eye irritation | polymer of ethylene oxide and propylene oxide: Rabbit: not irritating; OECD Test Guideline 405 Category approach Based on available data, the classification criteria are not met. |
|-----------------------|---|

Respiratory or skin sensitisation

| | |
|----------------------|---|
| Sensitisation | polymer of ethylene oxide and propylene oxide: not expected based on structure and functional groups |
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Germ cell mutagenicity

| | |
|------------------------------|--|
| Genotoxicity in vitro | polymer of ethylene oxide and propylene oxide: |
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| | |
|---------------------------------|--|
| Genotoxicity in vivo | not expected based on structure and functional groups polymer of ethylene oxide and propylene oxide: No data available |
| Carcinogenicity | |
| Carcinogenicity | polymer of ethylene oxide and propylene oxide: This information is not available. |
| Reproductive toxicity | |
| Reproductive toxicity | polymer of ethylene oxide and propylene oxide: This information is not available. |
| Teratogenicity | polymer of ethylene oxide and propylene oxide: This information is not available. |
| STOT - single exposure | |
| Remarks | polymer of ethylene oxide and propylene oxide: The substance or mixture is not classified as specific target organ toxicant, single exposure. |
| STOT - repeated exposure | |
| Remarks | polymer of ethylene oxide and propylene oxide: This information is not available. |
| Aspiration hazard | |
| Aspiration toxicity | polymer of ethylene oxide and propylene oxide: Not applicable |

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

| | |
|---|---|
| Toxicity to fish | polymer of ethylene oxide and propylene oxide: LC50 (96 h) Brachydanio rerio (zebrafish): > 100 mg/l ; semi-static test; OECD Test Guideline 203 Category approach |
| Toxicity to fish - Chronic toxicity | polymer of ethylene oxide and propylene oxide: No data available |
| Toxicity to daphnia and other aquatic invertebrates | polymer of ethylene oxide and propylene oxide: EC50 (48 h) Daphnia magna (Water flea): > 100 mg/l ; static test; OECD Test Guideline 202 Category approach |
| Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity | polymer of ethylene oxide and propylene oxide: No data available |
| Toxicity to aquatic plants | polymer of ethylene oxide and propylene oxide: EC50 (72 h) Desmodesmus subspicatus (green algae): > 100 mg/l ; static test; OECD Test Guideline 201; Category approach |
| Toxicity to soil dwelling organisms | polymer of ethylene oxide and propylene oxide: No data available |
| Toxicity to terrestrial flora | polymer of ethylene oxide and propylene oxide: |

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| | |
|---|--|
| | No data available |
| Toxicity for other terrestrial non-mammalian fauna | polymer of ethylene oxide and propylene oxide: No data available |
| 12.2 Persistence and degradability | |
| Biodegradability | polymer of ethylene oxide and propylene oxide: Readily biodegradable.; > 70 %; 19 d; aerobic; OECD Test Guideline 301A Category approach |
| 12.3 Bioaccumulative potential | |
| Bioaccumulation | polymer of ethylene oxide and propylene oxide: No data available |
| 12.4 Mobility in soil | |
| Mobility | polymer of ethylene oxide and propylene oxide: No data available |
| 12.5 Results of PBT and vPvB assessment | |
| Results of PBT assessment | polymer of ethylene oxide and propylene oxide: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB). |
| 12.6 Other adverse effects | |
| General advice | polymer of ethylene oxide and propylene oxide: None known. |

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

| | |
|--|---|
| Product | Can be incinerated, when in compliance with local regulations. |
| Contaminated packaging | Empty remaining contents. |
| waste code of the European Union: EWC | A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company. |

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

| | |
|------------------|---------------------|
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ADN | Not dangerous goods |
| IMDG | Not dangerous goods |
| ICAO/IATA | Not dangerous goods |

14.2 Proper shipping name

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| | |
|-----------|---------------------|
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ADN | Not dangerous goods |
| IMDG | Not dangerous goods |
| ICAO/IATA | Not dangerous goods |

14.3 Transport hazard class

| | |
|-----------|---------------------|
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ADN | Not dangerous goods |
| IMDG | Not dangerous goods |
| ICAO/IATA | Not dangerous goods |

14.4 Packing group

| | |
|-----------|---------------------|
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ADN | Not dangerous goods |
| IMDG | Not dangerous goods |
| ICAO/IATA | Not dangerous goods |

14.5 Environmental hazards

| | | |
|-----------|---------------------------|----|
| ADR | Environmentally hazardous | no |
| RID | Environmentally hazardous | no |
| ADN | Environmentally hazardous | no |
| IMDG | Marine pollutant | no |
| ICAO/IATA | Environmentally hazardous | no |

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

| | |
|---------|---------------------------|
| Remarks | No information available. |
|---------|---------------------------|

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****NATIONAL/OTHER REGULATIONS**

| | |
|--|---|
| Legislation on the control of major-accident hazards involving dangerous substances | Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. list entry in the directive:: Not applicable |
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NOTIFICATION STATUS

| | | |
|---|------------|---|
| Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP) | CH INV | listed (product or constituents are listed) |
| Canadian Domestic Substances List (DSL) | DSL | listed (product or constituents are listed) |
| Australia Inventory of Chemical Substances (AICS) | AICS | listed (product or constituents are listed) |
| Japan. ENCS - Existing and New Chemical Substances Inventory | ENCS (JP) | listed (product or constituents are listed) |
| Japan. ISHL - Inventory of Chemical Substances | ISHL (JP) | listed (product or constituents are listed) |
| Korea. Korean Existing Chemicals Inventory (KECI) | KECI (KR) | listed (product or constituents are listed) |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | PICCS (PH) | listed (product or constituents are listed) |
| China. Inventory of Existing Chemical Substances in China (IECSC) | IECSC | listed (product or constituents are listed) |
| United States TSCA Inventory | TSCA | listed (product or constituents are listed) |

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment**polymer of ethylene oxide and propylene oxide**

A Chemical Safety Assessment is not required for this substance (exempted from obligation to register).

SECTION 16: OTHER INFORMATION**Safety datasheet sections which have been updated:**

- 7. Handling and storage
- 8. Exposure controls/personal protection
- 9. Physical and chemical properties
- 15. Regulatory information
- 16. Other information

Further information:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety datasheet only contains information relating to safety and does not

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replace any product information or product specification.

Key or legend to abbreviations and acronyms used in the safety data sheet

| | |
|-----------|---|
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure |
| ADR | Accord européen relatif au transport international des marchandises Dangereuses par Route |
| AICS | Australian Inventory of Chemical Substances |
| ANSI | American National Standards Institute |
| ASTM | American Society of Testing and Materials (US) |
| BCF | Bioconcentration factor |
| CLP | Regulation on Classification, Labelling and Packaging of Substances and Mixtures |
| DIN | Deutsches Institut für Normung |
| DNEL | Derived No-Effect Level |
| DSL | Domestic Substances List |
| EC... | Effect concentration ... % |
| ENCs | Existing Notified Chemical Substances (Japan) |
| EWC | European Waste Catalogue |
| IATA | International Air Transport Association |
| IBC | Intermediate Bulk Container |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| ISHL | Industrial Safety and Health Law (Japan) |
| ISO | International Organization for Standardization |
| IUPAC | International Union of Pure and Applied Chemistry |
| KECI | Korea Existing Chemicals Inventory |
| LC... | Lethal Concentration, ...% |
| LD... | Lethal Dose, ...% |
| MARPOL | International Convention for the Prevention of Pollution From Ships |
| NDSL | Non-Domestic Substances List |
| NOAEL | no observable adverse effect level |
| NOEL/NOEC | No Observed-effect level/concentration |
| NZIoC | New Zealand Inventory of Chemicals |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | persistent, bioaccumulative, toxic |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport international ferroviaire de marchandises dangereuses |
| TG | Test Guideline |
| TRGS | Technische Regeln für Gefahrstoffe |
| TSCA | Toxic Substances Control Act |
| vPvB | very persistent, very bioaccumulative |
| WGK | Wassergefährdungsklasse |