

**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
-------------------------------	--

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.

NOVANIK 1010

Version: 5.00

Revision Date 23.09.2019

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**

Suitable extinguishing media	Water, Foam, Dry powder, Carbon dioxide (CO ₂)
-------------------------------------	--

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.
---	---

5.3 Advice for firefighters

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

NOVANIK 1010

Version: 5.00

Revision Date 23.09.2019

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.
------------------------	------------------------------------

NOVANI 1010

Version: 5.00

Revision Date 23.09.2019

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.
-----------------------	---

NOVANIK 1010

Version: 5.00

Revision Date 23.09.2019

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.
-------------	---

10.2 Chemical stability

NOVANI 1010

Version: 5.00

Revision Date 23.09.2019

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
----------------------	---

Germ cell mutagenicity

Genotoxicity in vitro	polymer of ethylene oxide and propylene oxide:
------------------------------	--

NOVANI 1010

Version: 5.00

Revision Date 23.09.2019

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:

NOVANI 1010

Version: 5.00

Revision Date 23.09.2019

	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

NOVANI 1010

Version: 5.00

Revision Date 23.09.2019

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
--	---

NOVANIK 1010

Version: 5.00

Revision Date 23.09.2019

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

NOVANI 1010

Version: 5.00

Revision Date 23.09.2019

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