

**NaveniLink**

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:

Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**Issuing Date** 27-Jan-2023 **Revision date** 27-Jan-2023 **Revision Number** 1

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

* 1. **Product identifier**

**Product Name**

**Pure substance/mixture**NaveniLink

Mixture

* 1. **Relevant identified uses of the substance or mixture and uses advised against Recommended use** For research use only. Not for use in diagnostic procedures **Uses advised against** No information available
	2. **Details of the supplier of the safety data sheet**

**Manufacturer**

**Navinci Diagnostics AB**

BMC, Husargatan 3 (D11, level 1)

75 124 Uppsala, Sweden

For further information, please contact

**E-mail address** contact@navnici.se

* 1. **Emergency telephone number**

**Emergency Telephone** With acute danger to life, property, or environment - 112

 Vid akut fara för liv, egendom eller miljö - 112

# SECTION 2: Hazards identification

|  |  |  |
| --- | --- | --- |
| **Components** | **Hazard statement** | **Complementary information** |
| Modifier Buffer | None | Non-Hazardous substance or mixture |
| Oligo Arm1 | None | Non-Hazardous substance or mixture |
| Oligo Arm2 | None | Non-Hazardous substance or mixture |
| Quencher N | Regulation (EC) No 1272/2008 | See information below |

* 1. **Classification of the substance or mixture**

***Regulation (EC) No 1272/2008***

|  |
| --- |
| Acute toxicity - Oral Category 4 - (H302) |
| Skin corrosion/irritation Category 2 - (H315) |
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Skin sensitisation | Category 1 - (H317) |
|  |  |
|  |  |

* 1. **Label elements**

NaveniLink

Contains N-ethylmaleimide



**Signal word**

Warning

**Hazard statements**

H302 - Harmful if swallowed H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

**Precautionary Statements - EU (§28, 1272/2008)**

P280 - Wear protective gloves/protective clothing and eye/face protection P264 - Wash face, hands and any exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P330 - Rinse mouth

P501 - Dispose of contents/ container to an approved waste disposal plant

* 1. **Other hazards**

No information available.

# SECTION 3: Composition/information on ingredients

* 1. **Substances**

Not applicable

* 1. **Mixtures**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Chemical name | Weight-% | REACH registration number | EC No (EUIndex No) | Classification according to Regulation (EC) No.1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
| N-ethylmaleimide 128-53-0 | 1 - <3 | No data available | 204-892-4 | Acute Tox. 2 (H300) Acute Tox. 3 (H311) Skin Corr. 1B (H314) Skin Sens. 1 (H317) | - | - | - |

**Full text of H- and EUH-phrases: see section 16**

**Acute Toxicity Estimate**

**If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
| N-ethylmaleimide 128-53-0 | 25 | No data available | No data available | No data available | No data available |

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

# SECTION 4: First aid measures

* 1. **Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

**Skin contact** May cause an allergic skin reaction. In the case of skin irritation or allergic reactions, see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.

**Self-protection of the first aider** Avoid contact with skin, eyes, or clothing. Wear personal protective clothing (see section 8).

* 1. **Most important symptoms and effects, both acute and delayed**

**Symptoms** See Section 2.2 for more information. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

* 1. **Indication of any immediate medical attention and special treatment needed**

**Note to doctors** May cause sensitisation in susceptible persons. Treat symptomatically.

# SECTION 5: Firefighting measures

* 1. **Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

* 1. **Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical**

Product is or contains a sensitiser. May cause sensitisation by skin contact.

* 1. **Advice for firefighters**

**Special protective equipment and precautions for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# SECTION 6: Accidental release measures

* 1. **Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

* 1. **Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

* 1. **Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

* 1. **Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# SECTION 7: Handling and storage

* 1. **Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes, or clothing.

* 1. **Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep out of the reach

of children.

* 1. **Specific end use(s)**

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

# SECTION 8: Exposure controls/personal protection

* 1. **Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)**

No information available.

* 1. **Exposure controls**

**Personal protective equipment**

**Eye/face protection** Eye protection must conform to standard EN 166. Wear safety glasses with side shields (or

goggles).

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection** Use appropriate respiratory protection.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

**Environmental exposure controls** No information available.

# SECTION 9: Physical and chemical properties

* 1. **Information on basic physical and chemical properties Physical state** Liquid

**Appearance** No information available

**Colour** No information available

**Odour** No information available.

**Odour threshold** No information available

**Property Values Remarks • Method**

**Melting point / freezing point** No data available None known

**Boiling point / boiling range** No data available None known

**Flammability (solid, gas)** No data available None known

**Flammability Limit in Air** None known

**Upper flammability or explosive limits**

**Lower flammability or explosive limits**

No data available No data available

**Flash point** No data available None known

**Autoignition temperature** No data available None known

**Decomposition temperature** None known

**pH** No data available None known

**pH (as aqueous solution)** No data available None known

**Kinematic viscosity** No data available None known

**Dynamic viscosity** No data available None known

**Water solubility** No data available None known

**Solubility(ies)** No data available None known

**Partition coefficient** No data available None known

**Vapour pressure** No data available None known

**Relative density** No data available None known

**Bulk density** No data available

**Liquid Density** No data available

**Relative vapour density** No data available None known

**Particle characteristics**

**Particle Size** No information available

**Particle Size Distribution** No information available

* 1. **Other information**
		1. **Information with regards to physical hazard classes**

Not applicable

* + 1. **Other safety characteristics**

No information available

# SECTION 10: Stability and reactivity

* 1. **Reactivity**

**Reactivity** No information available.

* 1. **Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

* 1. **Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

* 1. **Conditions to avoid**

**Conditions to avoid** None known based on information supplied.

* 1. **Incompatible materials**

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

* 1. **Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

# SECTION 11: Toxicological information

* 1. **Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

**Skin contact** May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed. (based on components).

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

**Numerical measures of toxicity**

**Acute toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document**

**Component Information**

|  |  |  |  |
| --- | --- | --- | --- |
| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| N-ethylmaleimide | = 25 mg/kg ( Rat ) | - | - |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Classification based on data available for ingredients. Irritating to skin.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

* 1. **Information on other hazards**
		1. **Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

* + 1. **Other information**

**Other adverse effects** No information available.

# SECTION 12: Ecological information

* 1. **Toxicity**

**Ecotoxicity**

* 1. **Persistence and degradability**

**Persistence and degradability** No information available.

* 1. **Bioaccumulative potential**

**Bioaccumulation** No information available.

* 1. **Mobility in soil**

**Mobility in soil** No information available.

* 1. **Results of PBT and vPvB assessment**

**PBT and vPvB assessment** No information available.

* 1. **Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

* 1. **Other adverse effects**

No information available.

# SECTION 13: Disposal considerations

* 1. **Waste treatment methods**

**Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# SECTION 14: Transport information

**IATA**

**14.1 UN number or ID number** Not regulated

**14.2**

* 1. **Transport hazard class(es)** Not regulated
	2. **Packing group** Not regulated
	3. **Environmental hazards** Not applicable
	4. **Special precautions for user**

**Special Provisions** None

**IMDG**

* 1. **UN number or ID number** Not regulated

**14.2**

* 1. **Transport hazard class(es)** Not regulated
	2. **Packing group** Not regulated
	3. **Environmental hazards** Not applicable
	4. **Special precautions for user**

**Special Provisions** None

* 1. **Maritime transport in bulk according to IMO instruments**

No information available

**RID**

* 1. **UN number** Not regulated

**14.2**

* 1. **Transport hazard class(es)** Not regulated
	2. **Packing group** Not regulated
	3. **Environmental hazards** Not applicable
	4. **Special precautions for user**

**Special Provisions** None

**ADR**

* 1. **UN number or ID number** Not regulated

**14.2**

* 1. **Transport hazard class(es)** Not regulated
	2. **Packing group** Not regulated
	3. **Environmental hazards** Not applicable
	4. **Special precautions for user**

**Special Provisions** None

# SECTION 15: Regulatory information

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

**National regulations**

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**International Inventories**

**TSCA** Does not comply

**DSL/NDSL** Does not comply

**EINECS/ELINCS** Does not comply

**ENCS** Does not comply

**IECSC** Does not comply

**KECL** Does not comply

**PICCS** Does not comply

**AIIC** Does not comply

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Chemical name | TSCA | DSL | NDSL | EINECS | ELINCS |
| N-ethylmaleimide | ACTIVE | X | - | X | - |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Chemical name | ENCS | IECSC | KECL | PICCS | AIIC |
| N-ethylmaleimide | - | X | - | - | X |

**Legend:** X - Listed

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AIIC** - Australian Inventory of Industrial Chemicals

* 1. **Chemical safety assessment**

**Chemical Safety Report** No information available

# SECTION 16: Other information

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

**Full text of H-Statements referred to under section 3**

H300 - Fatal if swallowed

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|  |  |  |  |
| --- | --- | --- | --- |
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | \* | Skin designation |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID) Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine’s PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer**

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

**End of Safety Data Sheet**