

Complies with Regulation (EC) No 1907/2006 (REACH),  
Annex II, amended according to  
Regulation (EU) 2020/878 -  
Print date 27.08.2024  
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Version 1.02

## SECTION 1: DESCRIPTION OF THE SUBSTANCE OR MIXTURE AND THE COMPANY

**Handelsname** SN2986 - Leckage-Spray

**1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
**Identified uses** *Aerosol product*

### 1.3 Manufacturer / Supplier

STRACK NORMA GmbH & Co. KG  
Königsberger Strasse 11  
D- 58511 Lüdenscheid  
Tel.: +49 2351 8701-0  
Fax: +49 2351 8701-100  
E-mail: [info@strack.de](mailto:info@strack.de)  
[www.strack.de](http://www.strack.de)

### 1.4 Emergency information

POISON EMERGENCY CALL/TRANSPORT EMERGENCY CALL -  
Deutschland, Österreich, Schweiz, Luxemburg (24h)  
Tel: +49 89 220 61012 / 0800 000 7801 (Deutsch, Englisch)  
Emergency number in case of poisoning/accident - Tel.  
Switzerland, Luxembourg (24h): Tel: ++33 1 7211 0003 (Français)

## SECTION 2: POTENTIAL HAZARDS

### 2.1 Classification of the substance or mixture

**Product definition : Mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP/GHS].**  
Aerosol 3, H229

The product is classified as hazardous according to Regulation (EC) 1272/2008 and its amendments.  
See section 16 for the full text of the H-phrases listed above.  
See section 11 for more detailed information on health effects and symptoms.

### 2.2 Labelling elements

<b>Signal word:</b>	Attention
<b>Hazard warnings:</b>	H229 - Pressurised container: May burst if heated.
<b><u>Safety instructions</u></b>	
<b>Prevention:</b>	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke. P251 - Do not pierce or burn, even after use.
<b>Reaction:</b>	Not applicable.

**Storage:** P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122 °F.

**Waste disposal:** Not applicable.

**Supplementary labelling elements:** Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:** Not applicable.

## 2.3 Other hazards

The product fulfils the criteria for PBT or vPvB substances according to Annex XIII of Regulation (EC) No 1907/2006:

This mixture does not contain any substances classified as PBT or vPvB

**Other hazards that do not lead to classification:** Aspiration hazard - Not applicable.

## Section 3: Composition/information on ingredients

### 3.2 Mixtures: Mixture

Name of the product / ingredient	Identifiers	%	Classification	Specific concerns Limit values, M-factors and ATEs	Type
Nitrous oxide	REACH #: 01-2119970538-25 EG: 233-032-0 CAS: 10024-97-2	≥10 - ≤25	Ox. Gas 1, H270 Press. Gas (Comp.), H280  See section 16 for the full wording of the HSentences given above.	-	[1]

There are no additional ingredients present which, to the best of the supplier's current knowledge, are classified as hazardous to health or the environment in the applicable concentrations, are PBT or vPvB substances or substances of equivalent concern, or which have an occupational exposure limit and therefore need to be listed in this section.

Typ  
1] Substance with an occupational exposure limit  
Occupational exposure limits, if available, are given in section 8.

## Section 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact:** Rinse eyes immediately with plenty of water and occasionally lift the upper and lower eyelids. Check for contact lenses and remove if present. Consult a doctor if irritation occurs.

**Inhalative:** Remove the affected person to fresh air and keep them still in a position that facilitates breathing. Inhalation of combustion products may delay the onset of symptoms. The affected person may need to remain under medical observation for 48 hours.

**Skin contact:** Rinse contaminated skin with plenty of water. Remove contaminated clothing and shoes. If symptoms occur, consult a doctor.

**Ingestion:** Rinse the mouth with water. If the substance has been swallowed and the affected person is conscious, give small amounts of water to drink. Do not induce vomiting unless specifically instructed to do so by medical personnel.

**Protection of first responders:** No measures should be taken that are associated with personal risk or that have not been sufficiently trained.

#### 4.2 Most important symptoms and effects, both acute and delayed Signs/symptoms of overexposure

**Eye contact:** Symptoms may include  
Irritation / redness

**Inhalative:** Symptoms may include  
Irritation of the respiratory tract/ cough

**Skin contact:** No specific data.

**Ingestion:** No specific data.

#### 4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

**Notes for the doctor:** In case of inhalation of combustion products, symptoms may be delayed. The affected person may need to remain under medical observation for 48 hours.

**Special treatments:** No special treatment.

### Section 5: Firefighting measures

#### 5.1 Extinguishing agents

**Suitable extinguishing agents:** Use an extinguishing agent that is also suitable for neighbouring fires.

**Unsuitable extinguishing agents:** None known.

#### 5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren

##### Hazards arising from the substance or mixture the mixture:

There is a risk of fire and explosion if it enters the sewerage system. In the event of heating or fire, a pressure increase occurs and the container may burst, creating a risk of explosion. Gas can accumulate in low-lying or closed areas or spread very far to a source of ignition and lead to a flashback with fire or explosion. In the event of fire, bursting aerosol containers can fly around at high speed.

##### Hazardous

##### Combustion products:

The decomposition products may include the following materials:  
Nitrogen oxides

#### 5.3 Instructions for firefighting

##### Special protective measures for firefighters:

In the event of a fire, immediately cordon off the scene and evacuate all persons from the danger zone. No measures should be taken that involve personal risk or that have not been adequately trained. Remove containers from the fire area if this can be done safely. Cool containers exposed to fire with water spray.

**Special  
Protective equipment for  
Fire fighting:**

Firefighters should wear appropriate protective clothing and self-contained breathing apparatus with full face protection operating in positive pressure mode. Clothing for firefighters (including helmet, protective boots and protective gloves) that complies with European Standard EN 469 provides basic protection in the event of accidents involving chemicals.

## **Section 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

**Not for emergencies  
trained personnel:**

No measures should be taken that involve personal risk or that have not been sufficiently trained. Evacuate the surrounding area. Deny access to non-essential and unprotected personnel. In the event of damaged aerosol containers, beware of rapidly escaping pressurised contents and propellant. If a large number of containers rupture, treat as a bulk spill in accordance with the instructions in the section on clean-up procedures. Do not touch or enter spilled substance. Switch off all sources of ignition. No sparks, smoking or flames in the hazard area. Wear suitable personal protective equipment.

**Emergency services:**

If specialised clothing is required for handling the spill, refer to section 8 on suitable and unsuitable materials. See also information in 'Personnel not trained for emergencies'.

### **6.2 Environmental protection measures:**

Avoid spreading and run-off of released material and contact with soil, water, drains and sewers. Notify the relevant authorities if the product has caused environmental pollution (sewage systems, surface water, soil or air).

### **6.3 Methods and material for retention and cleaning:**

Eliminate leaks if possible without risk. Remove the container from the leakage area. Use spark-proof tools and explosion-proof equipment. Dilute with water and wipe up if water soluble. Alternatively, or if insoluble in water, absorb with an inert dry material and place in a suitable waste container. Dispose of via a recognised waste disposal company.

### **6.4 Reference to other sections:**

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See section 13 for further information on waste treatment.

## **Section 7: Handling and storage**

**The information in this section contains general advice and instructions.**

### **7.1 Protective measures for safe handling**

**Protective measures:**

Wear suitable protective equipment (see section 8). Pressurised container. Protect from sunlight and temperatures above 50°C. Do not open by force or burn, even after use. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid inhalation of the gas. Avoid inhalation of vapour or mist. Use only with adequate ventilation. If ventilation is inadequate, wear respiratory protective equipment. Store and use away from heat, sparks, open flames or other ignition sources. Use explosion-proof electrical equipment (ventilation, lighting and material handling). Use only non-sparking tools. Empty containers contain product residues and may be hazardous.

## Advice on general industrial hygiene:

Eating, drinking and smoking must be prohibited in areas where this substance is used, stored or processed. Persons handling the substance must wash their hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering the eating area. See section 8 for further information on hygiene measures.

## 7.2 Conditions for safe storage in consideration of incompatibilities

Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Protect from direct sunlight. Store only in dry, cool and well-ventilated areas. Do not store with incompatible substances (see section 10) or with food and drink. Use suitable containers to avoid environmental contamination. See section 10 on incompatible materials before handling or use.

## 7.3 Specific end uses

**Recommendations:** Not available.

**Specific solutions for for the industrial sector:** Not available.

## Abschnitt 8: Exposure controls/personal protective equipment

The information in this section contains general advice and instructions. Information provided is based on typical anticipated uses of the product. Additional measures may be required for bulk handling or other uses that may significantly increase worker exposure or release to the environment.

### 8.1 Parameters to be monitored

Workplace limits

Name of the product / ingredient	Exposure limit values
Nitrous oxide	<b>TRGS 900 AGW (Germany, 7/2021).</b> Shift average: 180 mg/m <sup>3</sup> 8 hours. Short-term value: 360 mg/m <sup>3</sup> 15 minutes. Shift average: 100 ppm 8 hours. Short-term value: 200 ppm 15 minutes. <b>DFG MAK values list (Germany, 10/2021).</b> 8-hour average: 100 ppm 8 hours. Peak limit: 200 ppm, 4 times per shift, 15 minutes. 8-hour average: 180 mg/m <sup>3</sup> 8 hours. Peak limit: 360 mg/m <sup>3</sup> , 4 times per shift, 15 minutes.

## Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, atmospheric (workplace) or biological monitoring may be required to determine the effectiveness of ventilation or other control measures and/or the need to use respiratory protective equipment. Reference should be made to monitoring standards such as the following: European standard DIN EN 689 (Workplace atmospheres - Guidance for the assessment of inhalation exposure to chemical agents for comparison with limit values and measurement strategy) European standard DIN EN 14042 (Workplace atmospheres - Guidance for the application and use of methods and equipment for the assessment of chemical and biological agents) European standard DIN EN 482 (Workplace atmospheres - General requirements for the performance of methods for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances is also required.

**DNELs/DMELs**

No DNELs/DMELs values are available.

**PNECs**

No PNECs values are available.

**8.2 Begrenzung und Überwachung der Exposition****Suitable technical  
control devices:**

Use only with adequate ventilation. If work generates dust, fume, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below recommended or statutory limits. The equipment must also keep gas, vapour or dust concentrations below any lower explosion limits. Use explosion-proof ventilation equipment.

**Individual protective measures****Hygienic measures:**

Wash hands, forearms and face thoroughly after handling chemical products and at the end of the working day, as well as before eating, smoking and going to the toilet. Choose appropriate methods for removing contaminated clothing. Wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are available near the work area.

**Eye/face protection:**

If the risk assessment requires it, protective eyewear complying with a recognised standard should be worn to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, then the following protective equipment must be worn unless the assessment requires a higher level of protection: Safety glasses with side shields.

**Skin protection****Hand protection:**

When handling chemical products, chemical-resistant, impermeable gloves complying with a recognised standard must always be worn if a risk assessment requires this. Check during use that the gloves still fulfil their protective properties, taking into account the parameters specified by the glove manufacturer. It should be noted that the breakthrough time for glove material may vary for different glove manufacturers.  
Recommended : 1-4 hours (penetration time): Nitrile rubber 4-8 hours (penetration time): Viton®/butyl rubber

**Body protection:**

Before handling this product, personal protective equipment should be selected on the basis of the task to be performed and the associated risks and approved by a specialist.

**Other skin protection:**

Select suitable footwear and additional skin protection measures based on the task to be performed and the associated hazards, and have them approved in advance by a specialist

**Respiratory protection:**

Based on the hazard and risk of exposure, select the respirator that meets the appropriate standards and has the appropriate certifications. Respirators must be used in accordance with the respiratory protection programme to ensure proper fit, adequate training and other important aspects of use. Recommended : Filters against organic vapours (type AX) and particles

### Limitation and monitoring of environmental exposure:

Emissions from aeration and process equipment should be checked to ensure that they meet the requirements of environmental legislation. In some cases, scrubbers, filters or engineering changes to the process equipment will be required to reduce emissions to acceptable levels.

## Section 9: Physical and chemical properties

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

#### Appearance

Physical state:	Aerosol.
Colour:	Colourless.
Odour:	Odourless.
Odour threshold:	Not available.
Melting point/freezing point:	0°C
Boiling start and boiling range:	Not applicable.
Flammability:	Not flammable in the presence of the following materials and conditions: open flames, sparks and electrostatic discharges and heat.

#### Upper/lower flammability or explosive limits explosion limits:

Flash point: Closed crucible: Not applicable.

Auto-ignition temperature: Not applicable.

Decomposition temperature: Not available.

pH value: Not applicable.

Viscosity: Not applicable.

Solubility(ies): Not available.

Solubility in water: Not applicable.

Miscible with water: No.

Partition coefficient

n-octanol/water: Not applicable.

Vapour pressure: 2.3 kPa (17.25 mm Hg)

Relative density: Not available.

Density: 1 g/cm<sup>3</sup> [20°C (68°F)]

Vapour density: Not available.

Explosive properties: Not available.

Oxidising properties: Not available.

#### Particle properties

Median particle size: Not applicable.

SADT: Not available.

SAPT: Not available.

#### Aerosol product

Aerosol type: Spray

## Section 10: Stability and reactivity

10.1 Reactivity: No specific reactivity data is available for this product or its ingredients.

10.2 Chemical stability: The product is stable.

10.3 Possibility of of hazardous reactions: Under normal storage conditions and use, no hazardous reactions will occur.

10.4 Conditions to avoid  
Conditions to avoid: Avoid all possible ignition sources (sparks, flames)

### 10.5 Incompatible materials:

No specific data.

### 10.6 Hazardous decomposition products decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be formed.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Conclusion /  
Summary

Not available.

#### Acute toxicity estimates

Not available.

#### Irritation/corrosion

Conclusion /  
Summary

Not available.

#### Sensitisation

Conclusion /  
Summary

Not available.

#### Mutagenicity

Conclusion /  
Summary

Not available.

#### Carcinogenicity

Conclusion /  
Summary

Not available.

#### Reproductive toxicity

Conclusion /  
Summary

Not available.

#### Teratogenicity

Conclusion /  
Summary

Not available.

#### Specific target organ toxicity at single exposure

Not available.

#### Specific target organ toxicity at repeated exposure

Not available..

#### Aspiration hazard

Not available.

#### Information on likely routes of exposure

Not available.

#### Possible acute effects on health

Eye contact

No particular effects or hazards known.

Inhalative

No particular effects or hazards known.

Skin contact

No particular effects or hazards known.

Ingestion

No particular effects or hazards known.

### Delayed and immediate effects as well as chronic effects after short or long-term exposure

#### Short-term exposure

Possible immediate effects: Not available.

Possible delayed effects: Not available.

#### Long-term exposure

Possible immediate effects: Not available.

Possible delayed effects: Not available.

#### Possible chronic effects on health:

Not available.

#### Conclusion / Summary:

Not available.

General: No particular effects or hazards known.  
 Carcinogenicity: No particular effects or hazards known.  
 Mutagenicity: No particular effects or hazards known.  
 Teratogenicity: No particular effects or hazards known.t.  
 Effects on the development: No particular effects or hazards known.  
 Effects on the fertility: No particular effects or hazards known.#

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties:

Not available.

#### 11.2.2 Other information:

Not available.

### Section 12: Environmental information

#### 12.1 Toxicity

Conclusion / Summary: Not available.

#### 12.2 Persistence and degradability

Conclusion / Summary: Not available.

#### 12.3 Bioaccumulative potential

Not available.

#### 12.4 Mobility in soil

Partition coefficient Soil/water (KOC): Not available.

Mobility: Not available.

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

This mixture does not contain any substances classified as PBT or vPvB.

## 12.6 Endocrine disrupting properties

Not available.

## 12.7 Other adverse effects

No particular effects or hazards known.

## Abschnitt 13: Hinweise zur Entsorgung

Die Informationen in diesem Abschnitt enthalten allgemeine Ratschläge und Anleitungen. Die Liste der identifizierten Verwendungen in Abschnitt 1 sollte für jede anwendungsspezifische Information im Expositionsszenario/Expositionsszenarien hinzugezogen werden.

## 13.1 Waste treatment processes

### Product

#### Disposal methods:

Waste generation should be avoided or minimised wherever possible. Disposal of this product and its solutions and by-products must at all times comply with environmental protection requirements and waste disposal legislation and the requirements of local authorities. Dispose of surplus and non-recyclable products via a recognised waste disposal contractor. Do not discharge waste untreated into the sewerage system unless all applicable regulations of the authorities are complied with.

#### Hazardous waste:

The classification of the product may fulfil the criteria for hazardous waste.

### European Waste Catalogue (EWC)

Waste code	Waste designation
16 05 04*	Gases containing hazardous substances in pressurised containers (including halons)

### Packaging




**Disposal methods:** Waste generation should be avoided or minimised wherever possible. Packaging waste should be recycled. Incineration or landfill should only be considered if recycling is not feasible..

Type of packaging	European Waste Catalogue (EWC)
15 01 04	Metal packaging

#### Special precautions:

Waste and containers must be disposed of in a safe manner. Empty containers and linings may contain product residues. Do not puncture or incinerate containers.

## Abschnitt 14: Angaben zum Transport

	ADR/RID	IMDG	IATA
14.1 UN-Nummer	UN1950	UN1950	UN1950
14.2 Ordnungsgemäße UNVersandbezeichnung	DRUCKGASPACKUNGEN	AEROSOLS	Druckgaspackungen, nicht entzündbar
14.3 Transportgefahrenklassen	2 	2.2 	2.2 
14.4 Verpackungsgruppe	-	-	-
14.5 Umweltgefahren	Nein. Nicht verfügbar.	Nein. Nicht verfügbar.	Nein.

**IMDG**

Emergency plans: F-D, S-U  
Special regulations: 63, 190, 277, 327, 344, 381, 959

**IATA**

Quantity limitation: Passenger and cargo aircraft: 75 kg. Packing instructions: 203. Cargo aircraft only: 150 kg. Packing instructions: 203. limited quantities - passenger aircraft: 30 kg. Packing instructions: Y203.  
Special regulations: A98, A145, A167, A802

**14.6 Special precautions for the user**

Transport on the factory premises: Only transport in closed containers that are upright and stable. Persons transporting the product must be instructed in the correct behaviour in the event of accidents, leakage or spillage.

14.7 Transport in bulk according to IMO instruments:

not available.

**Section 15: Legislation****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EC Regulation (EC) No. 1907/2006 (REACH)****Annex XIV - List of substances subject to authorisation****Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

Nicht anwendbar.

**Restrictions on manufacture, placing on the market and use**

Country	Product name	Konz.	Naming	Utilisation
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Other EU provisions Industrial emissions (integrated pollution prevention and control) -air:	Listed			
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Industrial emissions (integrated pollution prevention and control) - Water:	Not listed			
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**Ozone-depleting substances (1005/2009/EU)**  
Not listed.

**Prior informed consent (PIC) (649/2012/EU)**  
Not listed.

**Persistent organic pollutants**  
Not listed.

**Aerosol dispensers:** 3

**Seveso Directive**

This product is not controlled under the Seveso Directive.

### National regulations

**Storage class (TRGS 510):** 2B

### Major Accidents Ordinance

This product is not subject to the German Hazardous Incident Ordinance

### Water hazard class:

nwg

### AOX:

The product does not contain any organically bound halogens that contribute to the AOX value in waste water.

### International regulations

#### Chemical Weapons Convention, Schedule I, II & III chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on the Prior Informed Consent Procedure (PIC)

Not listed.

#### UNECE Aarhus Protocol on Persistent Organic Compounds (POPs) and Heavy Metals

Not listed.

### Inventory list

**Australia :**

All components are listed or excluded.

**Canada :**

All components are listed or excluded.

**China :**

All components are listed or excluded..

**Eurasian Economic Union:**

**Stock of the Russian Federation:** All components are listed or exempted.

**Japan :**

**Japanese inventory for existing and new chemicals (CSCL):**

All components are listed or excluded.

**Japanese list (ISHL):** Not determined.

**New Zealand :**

All components are listed or excluded.

**Philippines :**

All components are listed or excluded.

**South Korea :**

All components are listed or excluded.

**Taiwan :**

All components are listed or excluded.

**USA :**

All components are active or excluded.

**Turkey :**

Not determined.

**Thailand :**

All components are listed or excluded.

**Vietnam :**

All components are listed or excluded.

### 15.2 Chemical safety assessment:

This product contains substances for which substance evaluations are still required.

### Section 16: Other information

Indicates information that has changed since the last version.

### Abbreviations and acronyms :

CLP = Regulation on Classification, Labelling and Packaging [Regulation (EC) No 1272/2008].

DMEL = Derived minimum effect level

DNEL = Derived no-effect limit value

EUH phrase = CLP specific hazard statement

N/A = Not available

PBT = Persistent, bioaccumulative and toxic

PNEC = Predicted no-effect concentration

RRN = REACH Registration Number

SGG = Segregation group

vPvB = Very persistent and very bioaccumulative

### **Procedure for deriving the classification according to Regulation (EC) 1272/2008 (CLP/GHS)**

Classification	Reason
Aerosol 3, H229	On the basis of test data

### **Full text of the abbreviated H-phrases**

H229 Pressurised container: May burst if heated.

H270 May cause or intensify fire; oxidiser.

H280 Contains pressurised gas; may explode if heated.

### **Full text of the classifications [CLP/GHS]**

Aerosol 3                      AEROSOLE - Category 3  
Ox. Gas 1                    OXIDISING GASES - Category 1  
Press. Gas (Comp.)       GASES UNDER PRESSURE - Compressed gas

### **Note for the reader**

To the best of our knowledge, the information contained herein is correct. However, neither the aforementioned manufacturer nor its subsidiaries assume any liability with respect to the accuracy or completeness of the information provided. Final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. Although certain risks are described herein, we cannot guarantee that these are the only possible risks.