

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07.

Date of issue: 05/12/2025

Reviewed on 05/12/2025

1 Identification

- **Product identifier**
- **Product Code: SMR-0420**
- **Product Description:** 2in1 Seam Sealer Beige
- **Details of the supplier of the safety data sheet**
- **Manufacturer:**
SpeedoKote LLC.
5565 N. Webster St.
Dayton, OH 45414
Phone: 855-777-3336
www.speedokote.com
- **Emergency telephone number:** Chemtrec 800-424-9300 (24 hours)

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carcinogenicity 1A	H350	May cause cancer.
Reproductive toxicity 1B	H360	May damage fertility or the unborn child.
Specific target organ toxicity (repeated exposure) 1	H372-H373	Causes damage to the immune system through prolonged or repeated exposure. May cause damage to the lung and the immune system through prolonged or repeated exposure. Route of exposure: Inhalation.
Aspiration hazard 1	H304	May be fatal if swallowed and enters airways.



GHS07

Skin irritation 2	H315	Causes skin irritation.
Eye irritation 2A	H319	Causes serious eye irritation.
Sensitization - skin 1	H317	May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
Calcium carbonate [Limestone]
Trade Secret

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trimethoxyvinylsilane
dibutylbis(pentane-2,4-dionato-O,O')tin

· **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to the immune system through prolonged or repeated exposure. May cause damage to the lung and the immune system through prolonged or repeated exposure. Route of exposure: Inhalation.

May be fatal if swallowed and enters airways.

· **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

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

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

Do NOT induce vomiting.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.

30 % of the mixture consists of component(s) of unknown toxicity.

· **Information pertaining to particular dangers for man and environment:**

· **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 1

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *2

Fire = 1

Reactivity = 0

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- **Other hazards**
- **Results of PBT and vPvB assessment**

· **PBT:**

25973-55-1 2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol

· **vPvB:**

25973-55-1 2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol

· **Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· **Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 1317-65-3	Calcium carbonate [Limestone] ⚠ Carcinogenicity 1A, H350; Specific target organ toxicity (repeated exposure) 2, H373; ⚠ Skin irritation 2, H315; Eye irritation 2A, H319	≥30–≤70%
	Trade Secret ⚠ Aspiration hazard 1, H304	≥1–≤10%
CAS: 13463-67-7	Titanium Dioxide ⚠ Carcinogenicity 2, H351	1–5%
CAS: 2768-02-7	trimethoxyvinylsilane ⚠ Flammable liquids 2, H225; ⚠ Sensitization - skin 1B, H317	≥1–≤5%
	Trade Secret ⚠ Acute toxicity - inhalation 3, H331; ⚠ Eye damage 1, H318; ⚠ Skin irritation 2, H315; Sensitization - skin 1, H317; Specific target organ toxicity (single exposure) 3, H335	≥1–<3%
CAS: 57-11-4 RTECS: WI 2800000	Stearic Acid, pure	0.1–1%
CAS: 22673-19-4	dibutylbis(pentane-2,4-dionato-O,O')tin ⚠ Reproductive toxicity 1B, H360; Specific target organ toxicity (repeated exposure) 1, H372; Flammable liquids 4, H227	≥0.1–≤1%
CAS: 25973-55-1	2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol ⚠ Specific target organ toxicity (repeated exposure) 1, H372; ⚠ Acute toxicity - dermal 4, H312; Combustible Dust PBT; vPvB	0.1–1%
CAS: 52829-07-9	Tinuvin® 770 DF ⚠ Acute toxicity - inhalation 2, H330; ⚠ Specific target organ toxicity (single exposure) 1, H370; ⚠ Eye damage 1, H318	≥0.1–<1%

· **Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

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* 4 First-aid measures

- **Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

- **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

If eye irritation occurs, consult a doctor.

If easy to do so, remove contact lenses if worn.

- **After swallowing:**

Rinse mouth out with water.

If swallowed and symptoms occur, consult a doctor.

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

* 5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Use fire fighting measures that suit the environment.

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **For safety reasons unsuitable extinguishing agents:** No further relevant information.

- **Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

- **Advice for firefighters**

- **Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.

- **Environmental precautions:** Do not allow to enter sewers / surface or ground water.

- **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

- **Protective Action Criteria for Chemicals**

Protective Action Criteria (PACs) are essential components for planning and response to uncontrolled releases of hazardous chemicals.

- **PAC-1:**

PAC 1: Mild, transient health effects.

25322-69-4	Propylene Glycol	30 mg/m ³
13463-67-7	Titanium Dioxide	30 mg/m ³

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2768-02-7	trimethoxyvinylsilane	9.5 ppm
	Trade Secret	23 mg/m ³
57-11-4	Stearic Acid, pure	14 mg/m ³

· **PAC-2:**

PAC 2: Irreversible or other serious health effects that could impair the ability to take protective action.

25322-69-4	Propylene Glycol	330 mg/m ³
13463-67-7	Titanium Dioxide	330 mg/m ³
2768-02-7	trimethoxyvinylsilane	100 ppm
	Trade Secret	250 mg/m ³
57-11-4	Stearic Acid, pure	150 mg/m ³

· **PAC-3:**

PAC 3: Life-threatening health effects.

25322-69-4	Propylene Glycol	2,000 mg/m ³
13463-67-7	Titanium Dioxide	2,000 mg/m ³
2768-02-7	trimethoxyvinylsilane	120 ppm
	Trade Secret	1,500 mg/m ³
57-11-4	Stearic Acid, pure	910 mg/m ³

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· **Information about protection against explosions and fires:** Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

1317-65-3 Calcium carbonate [Limestone]	
PEL	Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³
TWA	Short-term value: 5 mg/m ³ Long-term value: 10 mg/m ³

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Trade Secret	
PEL	Short-term value: 5 mg/m ³
13463-67-7 Titanium Dioxide	
PEL	Long-term value: 15* mg/m ³ *total dust
REL	See Pocket Guide App. A
TLV	Long-term value: 0.2* 2.5** mg/m ³ resp. fraction, *nanoscale, **finescale, A3
57-11-4 Stearic Acid, pure	
TLV	Long-term value: 10* 3** mg/m ³ *inhalable, **respirable particulate matter, *A4
22673-19-4 dibutylbis(pentane-2,4-dionato-O,O')tin	
STEL	Short-term value: 0.2 mg/m ³
TWA	Short-term value: 0.1 mg/m ³

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls**

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.

· **Appropriate engineering controls** No further data; see section 7.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

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· **Limitation and supervision of exposure into the environment** None

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Physical state	Solid
· Color:	White
· Odor:	Characteristic
· Odor threshold:	Not determined.
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.
· Flammability:	Not determined.
· Explosion limits:	
· Lower:	0.5 Vol %
· Upper:	6.5 Vol %
· Flash point:	115 °C (239 °F)
· Auto igniting:	210 °C (410 °F)
· Decomposition temperature:	Not determined.
· pH-value:	Not applicable.
· Viscosity:	
· Kinematic:	Not applicable.
· Dynamic:	Not applicable.
· Solubility in / Miscibility with	
· Water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure at 20 °C (68 °F):	2 hPa (1.5 mm Hg)
· Density at 20 °C (68 °F):	1.6 g/cm ³ (13.352 lbs/gal)
· Relative density	Not determined.
· Bulk density:	2 kg/m ³
· Vapor density	Not applicable.
· Particle characteristics	Not determined.

· Other information

· Appearance:	
· Form:	Paste
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	1–10 %
· VOC content:	1–10 %
· Change in condition	
· Oxidizing properties	None

* 10 Stability and reactivity

· Reactivity

The product is stable under normal conditions.
No further relevant information available.

· **Chemical stability** Stable under normal conditions.

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Strong oxidizing agents.
- **Hazardous decomposition products:** No dangerous decomposition products known.

* 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimate)

Inhalative	LC50/4 h	≥15.8–17.2 mg/l
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1317-65-3 Calcium carbonate [Limestone]

Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/96 hours	>10,000 Mg/l (algae)

Trade Secret

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

13463-67-7 Titanium Dioxide

Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)

2768-02-7 trimethoxyvinylsilane

Oral	LD50	7,120–7,236 mg/kg (rat)
Dermal	LD50	3,600–4,000 mg/kg (rabbit)

Trade Secret

Oral	LD50	2,413 mg/kg (rat)
Dermal	LD50	>2,009 mg/kg (rat)
		16 mg/kg (rabbit)
Inhalative	LC50/96 hours	1.49–2.44 Mg/l (rat)
		597 Mg/l (zebrafish)
	LC50	>100 mg/l (fish)

57-11-4 Stearic Acid, pure

Dermal	LD50	>5,000 mg/kg (rabbit)
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22673-19-4 dibutylbis(pentane-2,4-dionato-O,O')tin

Oral	LD50	1,864 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

25973-55-1 2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol

Oral	LD50	>7,750 mg/kg (rat)
Dermal	LD50	>1,100 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

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· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Interactive effects** No interactive effects between components are known.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

Although IARC has classified Titanium Dioxide as possibly carcinogenic to humans (2B), their summary concludes:
"No significant exposure to Titanium Dioxide is thought to occur during the use of products which Titanium Dioxide is bound to other materials, such as in cosmetics, paints and inks."

13463-67-7	Titanium Dioxide	2B
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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Alternative sources for toxicological information** No non-standard sources for toxicological information were used.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

1317-65-3 Calcium carbonate [Limestone]

EC50 >1,000 mg/kg (daphnia)

Trade Secret

EC50 25 mg/kg (trout)

OECD Test Guideline 203, 96 hour, Static Test

13463-67-7 Titanium Dioxide

EC50 >1,000 mg/kg (Water flea)

2768-02-7 trimethoxyvinylsilane

EC50 168.7 mg/kg (daphnia)

Trade Secret

EC50 81 mg/kg (daphnia)

90 mg/kg (daphnia)

8.8 mg/kg (Green algae)

22673-19-4 dibutylbis(pentane-2,4-dionato-O,O')tin

EC50 0.0036 mg/kg (daphnia)

25973-55-1 2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol

EC50 >100 mg/kg (daphnia)

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Results of PBT and vPvB assessment**

· **PBT:**

25973-55-1 2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol

· **vPvB:**

25973-55-1 2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol

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· **Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Observe all federal, state and local environmental regulations when disposing of this material.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

* 14 Transport information

· **UN-Number**

· **DOT, IMDG, IATA**

Non-Regulated Material

· **UN proper shipping name**

· **DOT, IMDG, IATA**

Non-Regulated Material

· **Transport hazard class(es)**

· **DOT, ADN, IMDG, IATA**

· **Class**

Non-Regulated Material

· **Packing group**

· **DOT, IMDG, IATA**

Non-Regulated Material

· **Environmental hazards:**

Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Special precautions for user**

Not applicable.

· **UN "Model Regulation":**

Non-Regulated Material

* 15 Regulatory information

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

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

1317-65-3	Calcium carbonate [Limestone]	ACTIVE
25322-69-4	Propylene Glycol	ACTIVE
	Trade Secret	ACTIVE
13463-67-7	Titanium Dioxide	ACTIVE
2768-02-7	trimethoxyvinylsilane	ACTIVE
	Trade Secret	ACTIVE
57-11-4	Stearic Acid, pure	ACTIVE

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22673-19-4	dibutylbis(pentane-2,4-dionato-O,O')tin	ACTIVE
25973-55-1	2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol	ACTIVE
52829-07-9	Tinuvin® 770 DF	ACTIVE

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**



WARNING: This product can expose you to chemicals including [one or more listed chemical] which is [are] known to the State of California to cause cancer [or birth defects or other reproductive harm]. For more information, go to www.P65Warnings.ca.gov.

13463-67-7	Titanium Dioxide
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· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **New Jersey Right-to-Know List:**

1317-65-3	Calcium carbonate [Limestone]
13463-67-7	Titanium Dioxide

· **New Jersey Special Hazardous Substance List:**

None of the ingredients is listed.

· **Pennsylvania Right-to-Know List:**

1317-65-3	Calcium carbonate [Limestone]
13463-67-7	Titanium Dioxide

· **Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

13463-67-7	Titanium Dioxide	A4
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7	Titanium Dioxide
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· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07 GHS08

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· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

Calcium carbonate [Limestone]

Trade Secret

trimethoxyvinylsilane

dibutylbis(pentane-2,4-dionato-O,O')tin

· **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to the immune system through prolonged or repeated exposure. May cause damage to the lung and the immune system through prolonged or repeated exposure. Route of exposure: Inhalation.

May be fatal if swallowed and enters airways.

· **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

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

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

Do NOT induce vomiting.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.

Exceptions can be made by the authorities in certain cases.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of previous version** 05/12/2025

· **Date of preparation** 05/12/2025

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Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07.

Date of issue: 05/12/2025

Reviewed on 05/12/2025

Trade name: 2in1 Seam Sealer

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· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety and Health
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 Flammable liquids 2: Flammable liquids – Category 2
 Flammable liquids 4: Flammable liquids – Category 4
 Acute toxicity - dermal 4: Acute toxicity – Category 4
 Acute toxicity - inhalation 2: Acute toxicity – Category 2
 Acute toxicity - inhalation 3: Acute toxicity – Category 3
 Skin irritation 2: Skin corrosion/irritation – Category 2
 Eye damage 1: Serious eye damage/eye irritation – Category 1
 Eye irritation 2A: Serious eye damage/eye irritation – Category 2A
 Sensitization - skin 1: Skin sensitisation – Category 1
 Sensitization - skin 1B: Skin sensitisation – Category 1B
 Carcinogenicity 1A: Carcinogenicity – Category 1A
 Carcinogenicity 2: Carcinogenicity – Category 2
 Reproductive toxicity 1B: Reproductive toxicity – Category 1B
 Specific target organ toxicity (single exposure) 1: Specific target organ toxicity (single exposure) – Category 1
 Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3
 Specific target organ toxicity (repeated exposure) 1: Specific target organ toxicity (repeated exposure) – Category 1
 Specific target organ toxicity (repeated exposure) 2: Specific target organ toxicity (repeated exposure) – Category 2
 Aspiration hazard 1: Aspiration hazard – Category 1

· *** Data compared to the previous version altered.**