Printing date 05/16/2024

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### Trade name: Sulfur Nitrogen Standard 100.0 ng/ul in Isooctane

Highly flammable liquid and vapor. Causes skin irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Precautionary statements Keep away from heatSparks/open flames/hot surfaces No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only onn-sparking tools. Take precautionary measures against static discharge. Avoid breathing dustflume/gas/mistr/apors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective glows/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. 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· <b><i>PBT</i></b> : Not applicable.	· <b><i>PBT</i></b> : Not applicable.	• <b><i>PBT:</i></b> Not applicable.	-	
· - · - · · · · · · · · · · · · · · · ·		••		

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)

99.853% (Contd. on page 3)

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0.082%

0.066%

Table of	of Nonhazardous	Ingredients
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CAS: 110-86-1 Pyridine

CAS: 544-40-1 Butyl sulfide

## 4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

### **5** *Fire-fighting measures*

- · Extinguishing media
- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away.	
· Environmental precautions:	
Do not allow product to reach sewage system or any water course.	
Inform respective authorities in case of seepage into water course or sewage system.	
Do not allow to enter sewers/ surface or ground water.	
· Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Dispose contaminated material as waste according to section 13.	
Ensure adequate ventilation.	
· 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.	
Protective Action Criteria for Chemicals	
· PAC-1:	
CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)	230 ppm
CAS: 110-86-1 Pyridine	3 ppm
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· PAC-2:	
CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)	830 ppm
CAS: 110-86-1 Pyridine	19 ppm
· PAC-3:	
CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)	5000* ppm
CAS: 110-86-1 Pyridine	3600* ppm

### 7 Handling and storage

#### · Handling:

- *Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.*
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- $\cdot \textit{Specific end use}(s) \textit{ No further relevant information available}.$

### 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

#### CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)

- TLV Long-term value: 300 ppm
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · 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.
- Avoid contact with the skin. 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.

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Trade name: Sulfur Nitrogen Standard 100.0 ng/ul in Isooctane

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • 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

· Body protection: Protective work clothing

Information on basic physical and General Information	chemical properties
Appearance:	
Form:	Liquid
Color:	Clear
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range:	-107.4 °C (-161.3 °F)
Boiling point/Boiling range:	98 °C (208.4 °F)
Flash point:	-12 °C (10.4 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	410 °C (770 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits: Lower:	1.1 Vol %

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Upper:	6 Vol %	
· Vapor pressure at 20 °C (68 °F):	15 hPa (11.3 mm Hg)	
· Density at 20 °C (68 °F):	0.69336 g/cm <sup>3</sup> (5.78609 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	<i>99.9 %</i>	
VOC content:	99.85 %	
	692.3 g/l / 5.78 lb/gal	
Solids content:	0.0 %	
· Other information	No further relevant information available.	

### **10 Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

CAS: 110-86-1 Pyridine

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Trade name: Sulfur Nitrogen Standard 100.0 ng/ul in Isooctane

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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.

### **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

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

· Uncleaned packagings:

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

UN-Number		
DOT, IMDG, IATA	UN1993	
UN proper shipping name		
DOT	Flammable liquids, n.o.s. (Octanes)	
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Octanes)	
Transport hazard class(es) DOT		
RUMARE LOOD		
Class	3 Flammable liquids	

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Label	(Contd. of pag 3
	5
IMDG	
Class	3 Flammable liquids
Label	3
IATA	
3	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substances: Octand
Marine pollutant:	No
	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
EMS Number:	<i>F-E,<u>S-E</u></i>
Stowage Category	В
Transport in bulk according to Annex II of	NI / I' II
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Deculation":	
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (OCTANES), 3, II

# **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

• Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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#### Trade name: Sulfur Nitrogen Standard 100.0 ng/ul in Isooctane

	(Contd. of page
· Section 313 (Specific toxic chemical listings):	
CAS: 110-86-1 Pyridine	
· TSCA (Toxic Substances Control Act):	
2,2,4-Trimethylpentane (Iso-Octane)	ACTIV
Pyridine	ACTIV
Butyl sulfide	ACTIV
· Hazardous Air Pollutants	
CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)	
Proposition 65	
· Chemicals known to cause cancer:	
CAS: 110-86-1 Pyridine	
• 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.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
CAS: 540-84-1 2 2 4-Trimethylpentane (Iso-Octane)	

CAS: 540-84-1 2,2,4-Trimethylpentane (Iso-Octane)	II
· TLV (Threshold Limit Value)	
CAS: 110-86-1 Pyridine	A3
·NIOSH-Ca (National Institute for Occupational Safety and Health)	

None of the ingredients is listed.

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



· Signal word Danger

· Hazard-determining components of labeling: 2,2,4-Trimethylpentane (Iso-Octane) · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

Take precautionary measures against static discharge.

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#### Trade name: Sulfur Nitrogen Standard 100.0 ng/ul in Isooctane

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Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department. · Contact: Date of Preparation / Last Revision: · Date of preparation / last revision Revision 1.2, 05/16/2024: Reviewed SDS for accuracy. MH/STN 05/16/2024 · 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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Skin Irritation 2: Skin corrosion/irritation - Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 Aspiration Hazard 1: Aspiration hazard – Category 1 • \* Data compared to the previous version altered.