Safety data sheet according to 1907/2006/EC, Article 31

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CHEMICALS, INC.

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inting date 16.07.	2021	<i>Revision:</i> 16.07.20
SECTION 1:	Identification of the substance/mixture and of the company	y/undertaking
· 1.1 Product ide	ntifier	
· Trade name: 2,	8,9-Tri-i-propyl-2,5,8,9-tetraaza-1-phosphabicyclo[3.3.3]undecane	
• Item number: 1 • CAS Number: 175845-21-3 • 1.2 Relevant ide		
•	ne supplier of the safety data sheet Supplier: Is, Inc. RT, MA 01950	
· 1.4 Emergency	ation obtainable from: Technical Department telephone number: CHEMTREC: + 1 (800) 424 9300	
	CHEMTREC: + 1 (800) 424-9300 opening times: +1 (978) 499-1600	
The substance is	ccording to Regulation (EC) No 1272/2008 s not classified according to the CLP regulation.	
 2.2 Label eleme Labelling accor Hazard pictogra Signal word Vo 	rding to Regulation (EC) No 1272/2008 Void ams Void	
• Signal word Vo • Hazard stateme		
· Precautionary s		
P231	Handle under inert gas.	
P222 P305+P351+P3	Do not allow contact with air. 338 IF IN EYES: Rinse cautiously with water for several minutes. R present and easy to do. Continue rinsing.	emove contact lenses,
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P422	Store contents under inert gas.	1/
P501	Dispose of contents/container in accordance with local/regional regulations.	ul/national/internation
· 2.3 Other hazar		
	and vPvB assessment	
• PBT: Not applie		
• vPvB: Not apple	cable.	
SECTION 3:	Composition/information on ingredients	
· 3.1 Chemical cl	haracterisation: Substances	
· CAS No. Descri	iption	
	8,9-Tri-i-propyl-2,5,8,9-tetraaza-1-phosphabicyclo[3.3.	
3]undecane		

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SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: No special measures required.
- \cdot 6.3 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 item 13.
- · 6.4 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.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling
- No special measures required.
- Open and handle receptacle with care.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 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: Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

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	(Contd. of page 2)
 8.1 Control parameters Ingredients with limit values that require Additional information: The lists valid d 	e monitoring at the workplace: Not required. uring the making were used as basis.
 8.2 Exposure controls Personal protective equipment: General protective and hygienic measure The usual precautionary measures are to Respiratory protection: Not required. Protection of hands: 	
Protective gloves	
Due to missing tests no recommendation chemical mixture. Selection of the glove material on conside	e and resistant to the product/ the substance/ the preparation. to the glove material can be given for the product/ the preparation/ the eration of the penetration times, rates of diffusion and the degradation
varies from manufacturer to manufacture • Penetration time of glove material	not only depend on the material, but also on further marks of quality and er. found out by the manufacturer of the protective gloves and has to be
observed. • Eye protection: Goggles recommended d	
 9.1 Information on basic physical and cl General Information Appearance: 	hemical properties
Form:	Liquid
Colour:	Yellow
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
• Change in condition Melting point/freezing point: Initial boiling point and boiling range.	Undetermined. : Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gas):	Not determined.
· Ignition temperature:	
Decomposition temperature:	Not determined.
• Auto-ignition temperature:	Not determined.
• Explosive properties:	Product does not present an explosion hazard.
• Explosion limits:	· · ·
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 •C:	0.922 g/cm ³
· Relative density	Not determined.



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		(Contd. of page 3
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC (EC)	0.00 %	
• 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- General notes: Not known to be hazardous to water.

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· 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation Disposal must be made according to official regulations.
- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

not regulated	
not regulated	
not regulated	
not regulated	
No	
Not applicable.	
x II of	
Not applicable.	
r	not regulated not regulated not regulated No Not applicable. II of

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I Substance is not listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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: Technical Department.

· Contact: Technical Director

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· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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