SAFETY DATA SHEET



Synergy 915

Section 1. Identification		
Product name	: Synergy 915	
Article No.	: 11915-07	
Relevant identified uses of	the substance or mixture and uses advised against	
Identified uses		
Metal working fluids Industrial use only.		
Uses advised against		
Consumer use.		
Manufacturer	: BLASER SWISSLUBE AG Winterseistrasse 22 CH-3415 Hasle-Rüegsau Switzerland Tel:+41 (0)34 460 01 01 E-Mail: contact@blaser.com	
Supplier's details	: Irving Tooling Solutions Ltd. Avonhead NZ-8042 Christchurch Tel:+64 3 981 8199 E-Mail: service@toolingsolutions.co.nz	
e-mail address of person responsible for this SDS	: reach@blaser.com	
Emergency telephone number (with hours of operation)	: +64 9 929 1483 (24h/7d)	

Section 2. Hazards identification

HSNO Classification	: SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2
	SKIN SENSITISATION - Category 1
	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

GHS label elements	
Signal word	: Warning
Hazard statements	 H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
General	: Do not apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

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Section 2. Hazards identification

Prevention	 P280 - Wear protective gloves. Wear eye or face protection. P273 - Avoid release to the environment. P261 - Avoid breathing vapour. P264 - Wash thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.
Response	 P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: Not applicable.
Disposal	 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Symbol	

Other hazards which do not : None known. result in classification

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	% (w/w)	Identifiers
2,2',2"-nitrilotriethanol	≤10	CAS: 102-71-6 EC: 203-049-8
2-(2-aminoethoxy)ethanol	≤10	CAS: 929-06-6 EC: 213-195-4
neodecanoic acid	≤10	CAS: 26896-20-8 EC: 248-093-9
2-aminoethanol	<5	CAS: 141-43-5 EC: 205-483-3
pyridine-2-thiol 1-oxide, sodium salt	≤0.3	CAS: 3811-73-2 EC: 223-296-5
1,2-Ethanediamine, N1,N1,N2,N2-tetramethyl-, polymer with 1,1'-oxybis [2-chloroethane]	<0.25	CAS: 31075-24-8

Additional information :

Neutralisation product: Equilibrium of Ionic Pairs according to REACH Annex V, 4.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.



Section 4. First aid measures

Description of necessary first aid measures

Inhalation	: Avoid breathing vapour or mist. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention

Most important symptoms/effects, acute and delayed

most important symptoms/		sta, acute and delayed
Potential acute health effe	<u>cts</u>	
Inhalation	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	:	Causes serious eye irritation.
<u>Over-exposure signs/sym</u>	oton	<u>15</u>
Inhalation	:	No specific data.
Ingestion	1	No specific data.
Skin	:	Adverse symptoms may include the following: irritation redness
Eyes	:	Adverse symptoms may include the following: pain or irritation watering redness
Indication of immediate me	<u>dica</u>	l attention and special treatment needed, if necessary
Specific treatments	:	No specific treatment.
Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

gloves.

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Wash contaminated clothing thoroughly with water before removing it, or wear



Section 5. Firefighting measures

Extinguishing media		
Suitable	Use an extinguishing agent suitable for the surrounding fire.	
Not suitable	None known.	
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.	
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides	
Hazchem code	Not available.	
Special precautions for fire- fighters	Promptly isolate the scene by removing all persons from the vicinity of the incide there is a fire. No action shall be taken involving any personal risk or without suitable training.	ent if
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods and material for con	tai	nment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows.

Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.



Section 7. Handling and storage

Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Storage temperature: 0 to 40°C (32 to 104°F). Shelf life: 18 months. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
2,2',2"-nitrilotriethanol	HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 4/2022) WES-TWA 8 hours: 5 mg/m ³ .

Biological exposure indices

No exposure indices known.

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measure	es	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection		
Date of issue/Date of revision		: 18. Nov. 2024 Version : 1 5/11 NZ



Section 8. Exposure controls/personal protection

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Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Wear suitable gloves tested to EN374. Nitrile gloves. thickness 0.3 mm (minimum).
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved before handling this product.
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>		
Physical state	:	Liquid.
Colour	:	Yellowish.
Odour	1	Bland.
Odour threshold	1	Not available.
рН	:	8.9 to 9.4 [Conc. (% w/w): 5%]
Melting point/freezing point	:	Not available.
Pour point	:	-40°C (-40°F)
Boiling point or initial boiling point and boiling range	:	Not available.
Flash point	1	Open cup: Not applicable.
Flammability	1	Not available.
Lower and upper explosion limit/flammability limit	1	Not available.
Vapour pressure	4	Not available.
Relative vapour density	4	Not available.
Relative density	4	Not available.
Density	4	1.069 g/cm³ [20°C (68°F)]
Solubility in water	4	Not available.
Miscible with water	4	Yes.
Partition coefficient: n- octanol/water	1	Not applicable.
Auto-ignition temperature	1	Not available.
Decomposition temperature	4	Not available.
Viscosity	:	Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): 16 mm²/s (16 cSt)
Particle characteristics		
Median particle size	4	Not applicable.

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Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials	: No specific data.
Conditions to avoid	: No specific data.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: Shelf life: 18 months.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

Section 11. Toxicological information

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.

Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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

Product/ingredient name	Result	Species	Dose	Exposure
2,2',2"-nitrilotriethanol	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	6400 mg/kg	-
2-(2-aminoethoxy)ethanol	LD50 Dermal	Rabbit	>3000 mg/kg	-
neodecanoic acid	LD50 Dermal	Rat	3640 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
2-aminoethanol	LD50 Dermal	Rabbit	2504 mg/kg	-
	LD50 Oral	Rat	1720 mg/kg	-
pyridine-2-thiol 1-oxide, sodium salt	LD50 Dermal	Rabbit	1800 mg/kg	-
	LD50 Oral	Rat - Female	1208 mg/kg	-
1,2-Ethanediamine, N1,N1, N2,N2-tetramethyl-, polymer with 1,1'-oxybis [2-chloroethane]	LC50 Inhalation Vapour	Rat	5.8 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1951 mg/kg	-

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-aminoethanol	Eyes - Severe irritant Skin - Moderate irritant	Rabbit Rabbit	-	250 ug 505 mg	-
Conclusion/Summary					
Skin	: pH value - Used for cla	assification			
Eyes	: pH value - Used for cla	assification			
Respiratory or skin sensitiz	zation				
Not available.					
Potential chronic health eff	fects				
General	: Once sensitized, a sev to very low levels.	vere allergic react	ion may occu	r when subse	quently expose
Inhalation	: No known significant e	ffects or critical h	azards.		
Ingestion	: No known significant e				
Skin contact	: Once sensitized, a sev to very low levels.	-		r when subse	quently expose
Eye contact	: No known significant e				
Carcinogenicity	: No known significant e				
Mutagenicity	: No known significant e				
Teratogenicity	: No known significant e				
Developmental effects	: No known significant e				
Fertility effects	: No known significant e	ffects or critical h	azards.		
Chronic toxicity					
Not available.					
Carcinogenicity Not available.					
Mutagenicity					
Not available.					
Teratogenicity					
Not available.					
Reproductive toxicity					
Not available.					
Specific target organ toxic	ity (single exposure)				
Product/ingredient name	ity (anigle exposule)	Category	Route	of T	arget organs
		Category	exposi		
2-aminoethanol		Category 3	-		espiratory tract itation
Specific target organ toxic	ity (repeated exposure)		· · ·		
Product/ingredient name		Category	Route exposi	-	arget organs
pyridine-2-thiol 1-oxide, sodi	um salt	Category 1	-	ne	ervous system
Aspiration hazard		I	I	I	
Not available.					
umerical measures of toxic	city				
Acute toxicity estimates					

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Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Synergy 915	>2000	>2000	N/A	141.1	N/A
2,2',2"-nitrilotriethanol	6400	N/A	N/A	N/A	N/A
neodecanoic acid	500	3640	N/A	N/A	N/A
2-aminoethanol	1720	1100	N/A	11	N/A
pyridine-2-thiol 1-oxide, sodium salt 1,2-Ethanediamine, N1,N1,N2,N2-tetramethyl-, polymer with 1,1'-oxybis[2-chloroethane]	500 1951	790 N/A	N/A N/A	N/A 11	0.5 N/A

Section 12. Ecological information

Ecotoxicity

: This material is harmful to aquatic life with long lasting effects.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
2,2',2"-nitrilotriethanol	Chronic NOEC 16 mg/l Fresh water	Daphnia - Daphnia magna	21 days
neodecanoic acid	Acute EC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
2-aminoethanol	Acute LC50 329160 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 0.85 mg/l	Daphnia	21 days
	Chronic NOEC 1.2 mg/l	Fish	30 days
pyridine-2-thiol 1-oxide, sodium salt	EC50 0.0012 mg/l	Algae	72 hours
	EC50 0.0088 mg/l	Daphnia	48 hours
1,2-Ethanediamine, N1,N1, N2,N2-tetramethyl-, polymer with 1,1'-oxybis [2-chloroethane]	Acute EC50 0.37 mg/l	Daphnia	48 hours
	Acute LC50 0.047 mg/l Fresh water Acute NOEC 0.037 mg/l Fresh water	Fish Fish	96 hours 96 hours

Persistence/degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2,2',2"-nitrilotriethanol	-1	<3.9	Low
2-(2-aminoethoxy)ethanol	-1.89	-	Low
neodecanoic acid	2.1	<225	Low
2-aminoethanol	-1.31	-	Low

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects

: No known significant effects or critical hazards.

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Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	New Zealand	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

HSNO Approval Number	: HSR002606
HSNO Classification	: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2
	SKIN SENSITISATION - Category 1
	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

List name	Ingredient name	Status
Schedule III	Triethanolamine	Listed

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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18. Nov. 1	2024
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Section 15. Regulatory information

UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

Inventory list

New Zealand

: All components are listed or exempted.

Section 16. Other information

<u>History</u>	
Date of printing	: 18. Nov. 2024
Date of issue/Date of revision	: 18. Nov. 2024
Date of previous issue	: No previous validation
Version	: 1
Prepared by	: Product Stewardship Blaser Swisslube AG
Key to abbreviations	 ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail SGG = Segregation Group UN = United Nations
References	: Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.