SAFETY DATA SHEET



Synergy 905

Section 1. Identification

GHS product identifier	: Synergy 905
Article No.	: 11905-05
Product type	: Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Industrial use only. Metal working fluids	
Uses advised against	
Consumer use.	

Manufactured/supplied	: BLASER SWISSLUBE AG Winterseistrasse 22 CH-3415 Hasle-Rüegsau Switzerland Tel:+41 (0)34 460 01 01 Mail: contact@blaser.com
	Blaser Swisslube Inc. 31 Hatfield Lane Goshen, NY 10924 Tel:+1 845 294 32 00 Mail: mailboxusa@blaser.com
e-mail address of person responsible for this SDS	: reach@blaser.com
Emergency telephone number (with hours of operation)	: +1 866 928 0789 (Toll free)

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	 H315 - Causes skin irritation. H319 - Causes serious eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (gastrointestinal tract)
Precautionary statements	

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Prevention	 P280 - Wear protective gloves. Wear eye or face protection. P260 - Do not breathe vapor. P264 - Wash thoroughly after handling.
Response	 P314 - Get medical advice or attention if you feel unwell. P302 + P352 - IF ON SKIN: Wash with plenty of water. P332 + P313 - If skin irritation 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.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

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Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	Identifiers
2,2'-(methylimino)diethanol	≤10	CAS: 105-59-9
2-amino-2-methylpropanol	≤5	CAS: 124-68-5
2,2'-(cyclohexylimino)bisethanol	≤5	CAS: 4500-29-2
2-aminobutan-1-ol	≤3	CAS: 96-20-8
benzotriazole	≤3	CAS: 95-14-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 and would require reporting in this section.

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

Section 4. First aid measures

Description of necess	ary first aid measures
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.
Inhalation	: Avoid breathing vapor 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 following exposure or if feeling unwell. 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.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.



Section 4. First aid measures

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 following exposure or if feeling unwell. 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.
Most important symptoms/	effects, acute and delayed
Potential acute health effe	<u>icts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/sym</u>	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
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.
Specific treatments	: No specific treatment.
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)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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.
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Section 6. Accidental release measures

Personal precautions, protec	<u>tiv</u>	e 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized 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 spilled 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).
Methods and materials for co	ont	ainment and cleaning up
Spill	:	Stop leak if without risk. Move containers from spill area. Approach 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 spilled 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). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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	:	Store between the following temperatures: 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 unlabeled 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

NIOSH Recommended exposure limit for Metalworking fluids: 0.5 mg/m3 (particulate)

Ingredient name	Exposure limits
2,2'-(methylimino)diethanol	None.
2-amino-2-methylpropanol	None.
2,2'-(cyclohexylimino)bisethanol	None.
2-aminobutan-1-ol	None.
benzotriazole	None.
Biological exposure indices	· · · · · · · · · · · · · · · · · · ·

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Section 8. Exposure controls/personal protection

No exposure indices known.

Appropriate engineering controls	user operations generate dust, fumes, gas, vapor or mist, use p cal exhaust ventilation or other engineering controls to keep wo rborne contaminants below any recommended or statutory limits	ker exposure to
Environmental exposure controls	missions from ventilation or work process equipment should be ey comply with the requirements of environmental protection leg uses, fume scrubbers, filters or engineering modifications to the II be necessary to reduce emissions to acceptable levels.	islation. In some
Individual protection measu		
Hygiene measures	ash hands, forearms and face thoroughly after handling chemic ating, smoking and using the lavatory and at the end of the work opropriate techniques should be used to remove potentially con- ash contaminated clothing before reusing. Ensure that eyewas nowers are close to the workstation location.	ing period. aminated clothing.
Eye/face protection	afety eyewear complying with an approved standard should be usessment indicates this is necessary to avoid exposure to liquid ases or dusts. If contact is possible, the following protection sho e assessment indicates a higher degree of protection: chemica	l splashes, mists, puld be worn, unless
Skin protection		
Hand protection	nemical-resistant, impervious gloves complying with an approve orn at all times when handling chemical products if a risk assess eccessary. Considering the parameters specified by the glove ma uring use that the gloves are still retaining their protective proper at the time to breakthrough for any glove material may be differ anufacturers. In the case of mixtures, consisting of several subs ne of the gloves cannot be accurately estimated. Wear suitable N374. Nitrile gloves. thickness 0.3 mm (minimum).	sment indicates this is inufacturer, check ties. It should be noted ent for different glove stances, the protection
Body protection	ersonal protective equipment for the body should be selected ba erformed and the risks involved before handling this product.	sed on the task being
Other skin protection	opropriate footwear and any additional skin protection measures ased on the task being performed and the risks involved before	
Respiratory protection	respirator is not needed under normal and intended conditions orkers are exposed to concentrations above the exposure limit, opropriate, 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.

 Not available. Øpen cup: Not applicable.
: Not available.
: <mark>-</mark> 32.8°F
: Not available.
: 8.8 to 9.8 [Conc. (% w/w): 5%]
: Not available.
: Characteristic.
: Yellow.
: Liquid.



Section 9. Physical and chemical properties and safety characteristics

Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not available.
Vapor pressure	: Not available.
Relative vapor density	: Not available.
Relative density	: Not available.
Density	: <mark>≸</mark> .05 g/cm³ [68°F (20°C)]
Solubility(ies)	:
Media	Result
cold water hot water	Dispersible Dispersible
Partition coefficient: n- octanol/water	: Not applicable.
Auto ignition tomporature	Net evelople

Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	 Fynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (104°F (40°C)): 13 mm²/s (13 cSt)
VOC content	 Image: Figure 1868-10); Concentrate in the packaging as sold. Image: Point Packaging 1970 (ASTM E1868-10); @ Maximum concentration
Particle characteristics	

Section 10. Stability and reactivity

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-(methylimino)diethanol	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	4780 mg/kg	-
2-amino-2-methylpropanol	LD50 Dermal	Rabbit	>2000 mg/kg	-
2,2'-(cyclohexylimino) bisethanol	LD50 Oral	Rat	>2000 mg/kg	-
benzotriazole	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-

Irritation/Corrosion

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Not available.

Conclusion/Summary	
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- Skin : pH value Used for classification
- Eyes : pH value Used for classification

Respiratory or skin sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification IARC/OSHA/NTP

Not applicable.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name		Route of exposure	Target organs
2,2'-(cyclohexylimino)bisethanol	Category 2	-	gastrointestinal tract

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Aspiration hazard

Not available.

Information on the likely routes of exposure	: Not available.
Potential acute health effect	<u>s</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following:
	pain or irritation watering redness
Inhalation	pain or irritation watering
Inhalation Skin contact	pain or irritation watering redness

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure

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Section 11. Toxicological information

Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
General	:	May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Synergy 905	>2000	>2000	N/A	N/A	N/A
2,2'-(methylimino)diethanol	4780	2500	N/A	N/A	N/A
2-amino-2-methylpropanol	N/A	2500	N/A	N/A	N/A
2,2'-(cyclohexylimino)bisethanol	500	N/A	N/A	N/A	N/A
2-aminobutan-1-ol	500	N/A	N/A	N/A	N/A
benzotriazole	500	2500	N/A	N/A	N/A

Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
2-amino-2-methylpropanol 2,2'-(cyclohexylimino) bisethanol	LC50 193 mg/l EC50 >100 mg/l	Daphnia Fish	48 hours 96 hours
benzotriazole	LC50 180 mg/l Acute EC50 15.8 mg/l Chronic NOEC 1 mg/l	Fish Daphnia - <i>Daphnia galeata</i> Daphnia - <i>Daphnia galeata</i>	96 hours 48 hours 21 days

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzotriazole	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2,2'-(methylimino)diethanol	-1.08	-	Low
2-amino-2-methylpropanol	-0.63	-	Low
2-aminobutan-1-ol	-0.45	-	Low
benzotriazole	1.44	-	Low

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Section 12. Ecological information

Mobility in soil

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

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods
 The generation of waste should be avoided or minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	-				
	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	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

U.S. Federal regulations : FSCA 4(a) proposed test rules: benzotriazole FSCA 8(a) CDR Exempt/Partial exemption: Not determined TSCA 12(b) - Chemical export notification Not applicable. Clean Air Act Section 112 : Not listed (b) Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 : Not listed Class I Substances

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Section 15. Regulatory information

Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	
Composition/information	on ingredients

No products were found.

t applicable.
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SARA 311/312

Classification : SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Composition/information on ingredients

Name	%	Classification
2,2'-(methylimino)diethanol	≤10	EYE IRRITATION - Category 2A
2-amino-2-methylpropanol	≤5	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
2,2'-(cyclohexylimino)bisethanol	≤5	ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
2-aminobutan-1-ol	≤3	ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1
benzotriazole	≤3	COMBUSTIBLE DUSTS ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A

California Prop. 65

This product contains one or more chemicals listed under California Proposition 65. Such chemicals are not used as raw materials in the product formulation but rather are typical impurities.

California SCAQMD Rule 1144:

Category: Metalworking Fluid – Metal Removal – General. Recordkeeping requirement: Super Compliant. (< 50 g/L VOC @ max. use concentration)

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

List name	Ingredient name	Status
Schedule III	Methyldiethanolamine	Listed

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

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Section 15. Regulatory information

Not listed.

Inventory list

Canada

: At least one component is not listed in DSL but all such components are listed in NDSL.

- **United States**
- : All components are active or exempted.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
EYE IRRITATION - Category 2A	Expert judgment Expert judgment Calculation method

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Prepared by	: Product Stewardship Blaser Swisslube AG
Key to abbreviations	: 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) N/A = Not available SGG = Segregation Group UN = United Nations
References	: Not available.

References

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.