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1 Identification of substance Product details Trade name Stock number: Manufacturer/Supplier: Informing department:	(1R,2R)-N-Methanesulfonyl-1,2-diphenylethanediamine         H27704         Alfa Aesar GmbH & Co.KG         Benzstrasse 3         D-76185 Karlsruhe / Germany         Product safety department.
Emergency information:	Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240
2 Hazards identification Hazard designation:	C Corrosive
Information pertaining to particular dangers for man and environment GHS label elements	R 34 Causes burns. Danger
Prevention: Response:	H314 - Causes severe skin burns and eye damage. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Storage: Disposal:	<ul> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> </ul>
3 Composition/information on ingredient Chemical characterization: Designation: (CAS#)	<b>s</b> (1R,2R)-N-Methanesulfonyl-1,2-diphenylethanediamine (CAS# 511534-44-4): 100%
<i>4 First aid measures</i> After inhalation After skin contact After eye contact	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing	Seek immediate medical advice.
5 Fire fighting measures Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases: Protective equipment:	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Can be released in case of fire: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulphur oxides (SOx) Wear self-contained breathing apparatus. Wear full protective suit.
Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases:	Can be released in case of fire: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulphur oxides (SOx) Wear self-contained breathing apparatus.
Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases: Protective equipment: 6 Accidental release measures Person-related safety precautions: Measures for environmental protection: Measures for cleaning/collecting:	Can be released in case of fire: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulphur oxides (SOx) Wear self-contained breathing apparatus. Wear full protective suit. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits. Ensure adequate ventilation. See Section 7 for information on safe handling See section 8 for information on personal protection equipment.
Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases: Protective equipment: 6 Accidental release measures Person-related safety precautions: Measures for environmental protection: Measures for cleaning/collecting: Additional information: 7 Handling and storage Handling	Can be released in case of fire: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulphur oxides (SOx) Wear self-contained breathing apparatus. Wear full protective suit. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits. Ensure adequate ventilation. See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers.
Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases: Protective equipment: 6 Accidental release measures Person-related safety precautions: Measures for environmental protection: Measures for cleaning/collecting: Additional information: 7 Handling and storage Handling Information for safe handling: Information about protection against	Can be released in case of fire: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulphur oxides (SOx) Wear self-contained breathing apparatus. Wear full protective suit. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits. Ensure adequate ventilation. See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.
Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases: Protective equipment: 6 Accidental release measures Person-related safety precautions: Measures for environmental protection: Measures for cleaning/collecting: Additional information: 7 Handling and storage Handling Information for safe handling: Information for safe handling: Information about protection against explosions and fires: Storage Requirements to be met by storerooms and containers: Information about storage in one common storage facility: Further information about storage conditions: 8 Exposure controls and personal protect Additional information about design of	Can be released in case of fire: Carbon monoxide and carbon dioxide Nitrogen oxides (NOX) Sulphur oxides (SOX) Wear self-contained breathing apparatus. Wear full protective equipment. Keep unprotected persons away. Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits. Ensure adequate ventilation. See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away - Do not smoke. No special requirements. Store away from oxidizing agents. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.
Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases: Protective equipment: 6 Accidental release measures Person-related safety precautions: Measures for environmental protection: Measures for cleaning/collecting: Additional information: 7 Handling and storage Handling Information for safe handling: Information for safe handling: Information about protection against explosions and fires: Storage Requirements to be met by storerooms and containers: Information about storage in one common storage facility: Further information about storage conditions: 8 Exposure controls and personal protect	Can be released in case of fire: Carbon monoxide and carbon dioxide Nitrogen oxides (NOX) Sulphur oxides (SOX) Wear self-contained breathing apparatus. Wear full protective suit. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits. Ensure adequate ventilation. See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 8 for information on disposal. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away - Do not smoke. No special requirements. Store away from oxidizing agents. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Ensure in cool, dry conditions in well sealed containers. <b>tion</b> Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of least 100 feet per minute.

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## Trade name (1R,2R)-N-Methanesulfonyl-1,2-diphenylethanediamine

	(Contd. of page 1)
Personal protective equipment General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.
Breathing equipment: Protection of hands: Material of gloves	Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition. 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. Impervious gloves
Penetration time of glove material Eye protection:	Not determined Safety glasses Face protection
Body protection:	Protective work clothing.

## 9 Physical and chemical properties:

General Information	
Form: Colour: Smell:	Powder White Not determined
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined
Flash point:	Not applicable
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion:	Product is not explosive.
Critical values for explosion: Lower: Upper:	Not determined Not determined
Steam pressure:	Not determined
Density	Not determined

## 10 Stability and reactivity

Thermal decomposition / conditions to be avoided: Materials to be avoided: Dangerous reactions: Dangerous products of decomposition:	No decomposition if used and stored according to specifications. Oxidizing agents No dangerous reactions known Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Sulphur oxides (SOx)
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11 Toxicological information Acute toxicity: Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information:	Corrosive effect on skin and mucous membranes. Strong corrosive effect. No sensitizing effect known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
12 Ecological information: Additional ecological information: General notes:	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.
13 Disposal considerations	
Product: Recommendation	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.
14 Transport information	
Land transport ADR/RID and GGVS/GGV	E (cross-border/domestic)

ADR/RID-GGVS/E Class: Kemler Number: UN-Number:	8 (C8) Corrosive substances. 80 3259	
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## Safety Data Sheet according to 1907/2006/EC, Article 31

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