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	SECTION 1: Identification of the substa 1.1 Product identifier Trade name Stock number: CAS Number: EC number:	nce/mixture and of the company/undertaking Nujol, for IR spectroscopy L14480 8012-95-1 232-384-2			
	1.2 Relevant identified uses of the substance Identified use:	202-304-2 e or mixture and uses advised against.			
	1.3 Details of the supplier of the safety data sheet				
	Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG A Johnson Matthey Company Zeppelinstr. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com www.alfa.com			
	1.4 Emergency telephone number:	Product safety Tel + +049 (0) 7275 988687-0 Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number) Poison Information Center Mainz www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240			
	SECTION 2: Hazards identification				
	2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS07				
	\checkmark				
	Eye Irrit. 2_H319_Causes serious eye irritation. Classification according to Directive 67/548/I Xi; Irritant				
	R36: Irritating to eyes. Information concerning particular hazards for human and environment: Other hazards that do not result in	Not applicable			
	classification 2.2 Label elements	No information known.			
	Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms Signal word Hazard statements	The substance is classified and labelled according to the CLP regulation. GHS07 Warning H319 Causes serious eye irritation.			
	Precautionary statements	P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
	2.3 Other hazards Results of PBT and vPvB assessment PBT: vPvB:	P337+P313 If eye irritation pérsists: Get medical advice/attention.			
SECTION 3: Composition/information on ingredients					
	3.1 Substances CAS# Designation:	8012-95-1 Nujol			
	Identification number(s): EC number:	232-384-2			
	SECTION 4: First aid measures				
	4.1 Description of first aid measures After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.			
	After skin contact After eye contact After swallowing	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. Seek medical treatment.			
	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 5.2 Special hazards arising from the substance or mixture	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.			
	5.3 Advice for firefighters	If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide			
	Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.			
	SECTION 6: Accidental release measures				
	6.1 Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation			
	6.2 Environmental precautions:	Do not allow product to reach sewage system or water bodies.			
	6.3 Methods and material for containment and cleaning up:	Do not allow to enter the ground/soil. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).			
	Prevention of secondary hazards:	Ensure adequate ventilation. No special measures required.			
	6.4 Reference to other sections	See Section 7 for information on safe handling See section 8 for information on personal protection equipment. (Contd. on page 2) DE/E			

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Revision: 14.10.2013 Trade name Nujol, for IR spectroscopy (Contd. of page 1) See Section 13 for information on disposal SECTION 7: Handling and storage Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. 7.1 Precautions for safe handling Information about protection against explosions and fires: No information known. 7.2 Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and No special requirements. Information about storage in one common storage facility: Further information about storage Store away from oxidizing agents. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. No further relevant information available. conditions: 7.3 Specific end use(s) SECTION 8: Exposure controls/personal protection Additional information about design of Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. technical systems: 8.1 Control parameters Components with critical values that require monitoring at the workplace: 8012-95-1 Nujol (100,0%) PEL (USA) 5 mg/m³ REL (USA) Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ oil mist TLV (USA) L Additional information: No data 8.2 Exposure controls 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. Do not inhale dust / smoke / mist. Avoid contact with the eyes. Avoid contact with the eyes. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations. Breathing equipment: Protection of hands: 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 Not determined Material of gloves Penetration time of glove material Safety glasses Face protection Eye protection: **Body protection:** Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties General Information Appearance: Form: Oily liquid Colorless to pale yellow Colour: Smell: Not determined Odour threshold: Not determined pH-value: Not determined Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: ca -20 °C >300 °C Not determined Flash point: 220 °C Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature: Self-inflammability: Not determined Not determined Not determined Not determined. Critical values for explosion: Lower: Not determined Upper: Not determined Upper: Steam pressure: Density at 20 °C Relative density Vapour density Evaporation rate Solubility in / Miscibility with Water: Not determined 0,838 g/cm³ Not determined. Not determined. Not determined. Not miscible or difficult to mix Water: Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not determined. kinematic: 9.2 Other information Not determined. No further relevant information available SECTION 10: Stability and reactivity 10.1 Reactivity 10.2 Chemical stability No information known

Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

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10.3 Possibility of hazardous reactions 10.5 Incompatible materials:	Reacts with strong oxidizing agents Oxidizing agents		
10.6 Hazardous decomposition products:	Carbon monoxide and carbon dioxide		
SECTION 11: Toxicological information			
11.1 Information on toxicological effects			
Acute toxicity: LD/LC50 values that are relevant for	The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.		
classification: Skin irritation or corrosion:	No data May cause irritation		
Eye irritation or corrosion: Sensitization:	Causes serious eye irritation. No sensitizing effect known.		
Germ cell mutagenicity:	No effects known		
Carcinogenicity:	ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals. The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/		
	or neoplastic data for this substance.		
Reproductive toxicity: Specific target organ system toxicity -	No effects known.		
repeated exposure: Specific target organ system toxicity - single	No effects known.		
exposure: Aspiration hazard:	No effects known. No effects known.		
Experience with humans:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.		
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
SECTION 12: Ecological information			
12.1 Toxicity	N. K. M. Standard McKennes (Market)		
Aquatic toxicity: 12.2 Persistence and degradability 12.3 Bioaccumulative potential	No further relevant information available. No further relevant information available.		
12.4 Mobility in soil	No further relevant information available. No further relevant information available.		
Additional ecological information: General notes:	Generally not hazardous for water.		
12.5 Results of PBT and vPvB assessment	Avoid transfer into the environment.		
PBT:	Not applicable.		
vPvB: 12.6 Other adverse effects	Not applicable. No further relevant information available.		
SECTION 13: Disposal considerations			
13.1 Waste treatment methods			
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.		
SECTION 14: Transport information			
UN-Number ADR, ADN, IMDG, IATA	Not applicable		
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Not applicable		
14.3 Transport hazard class(es)			
ADR, ADN, IMDG, IATA	Natassijashla		
Class Packing group	Not applicable		
Packing group ADR, IMDG, IATA 14.5 Environmental hazarda:	Not applicable		
14.5 Environmental hazards: 14.6 Special precautions for user	Not applicable. Not applicable.		
14.7 Transport in bulk according to Annex II of	of MARPOL73/78 and the IBC		
Code UN "Model Regulation":	Not applicable.		
SECTION 15: Regulatory information			
Australian Inventory of Chemical	tions/legislation specific for the substance or mixture		
Substances Standard for the Uniform Scheduling of	Substance is listed.		
Drugs and Poisons National regulations	Substance is not listed.		
Information about limitation of use:	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.		
Water hazard class:	Generally not hazardous for water.		
Other regulations, limitations and prohibitive ELINCS (European List of Notified Chemical	regulatións		
Substances)	Substance is not listed.		
Substances of very high concern (SVHC) according to REACH, Article 57 REACH - Pre-registered substances	Substance is not listed. Substance is listed.		
15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.		
SECTION 16: Other information			
Employers should use this information only as a	supplement to other information gathered by them, and should make independent judgement of suitability of		

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing SDS: Health, Safety and Environmental Department.

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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) GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent