TENNECO

ARTICLE MSDS FILE
TWIN/TRIPLE TUBE

Twin/Triple Tube Pressurised

	Printed
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01 = COMPANY DATA & PRODUCT IDENTIFICATION

Supplier	TENNECO
Address	1326-1378 South Road Clovelly Park SA 5042 Australia
Phone Number	+ 61 8 8374 5222
Contact Person	Pat Larobina
Phone Number Contact Person	+ 61 8 8374 5262
Emergency Information	+ 61 8 8374 5222
Poison Key Reference	MINERAL OIL CONTACT - NITROGEN GAS EXPOSURE

02 = COMPOSITION – COMPONENTS: COMPLETE PRODUCT

% W	% V	Components	Hazard Symbol	R Sentence(s)	
		Mineral oil	NA	H304	
		Nitrogen	NA		
		Steel Parts	NA		
		Plastic Parts	NA		
			NA		

03 = POTENTIAL HAZARDS: DAMPER OIL CONTAINED IN PRODUCT

Description of potential hazards

May be fatal if swallowed and enters airways.

Safety risks

Avoid formation of oil mist. Do not spray oil, do not heat.

Environmental hazards

Do not allow to be discharged, voluntary or involuntary into the environment. Damper oil is not completely biologically degradable and can have the potential to cause contamination issues.

04 = FIRST AID MEASURES WHEN EXPOSED TO PRODUCT: DAMPER OIL CONTAINED IN PRODUCT

General information

Potentially causes loss of natural skin grease and irritation when in contact with skin for a longer period of time.

After inhalation

Mostly only after being exposed to oil mist (potentially as oil-aerosols). Provide fresh air. Seek medical advice if symptoms persist.

After skin contact

Rinse well with soap and water. Intensive skin care required. Seek medical advice if symptoms persist.

After eye contact

Rinse immediately with plenty of tap water (drinking water quality) for 10 minutes minimum.

After swallowing

Do not induce vomiting, immediately call for medical attention by doctor.

Information for the doctor

Symptomatic treatment after exposure removed.

05 = FIRE FIGHTING MEASURES: COMPLETE ARTICLE

Suitable quenching agents

Ensure that quenching material is suitable for background fires as well. Product may burn due to presence of plastic or rubber parts mounted and oil contained in product.

Unsuitable quenching materials for safety reasons

Product contains oil which will float on water, so may as such propagate fire. Use adequate quenching products to prevent

Special hazards due to the material or combustion products

Product is pressurized with Nitrogen Gas. Cool down if affected by heat (fire). Rubber seal may be damaged by fire and release pressure from product, potentially entailing oil to be ejected as well.

Special protective equipment required for firefighting

Ensure that protective equipment is suitable for background fires as well.

06 = MEASURES IN CASE OF RELEASE OF PRODUCT: DAMPER OIL CONTAINED IN PRODUCT

Personal safety measures

Prevent damper oil from coming into contact with skin. Immediately remove contaminated clothing and dispose of or clean adequately

Environmental measures

Prevent damper oil from getting into the sewers or surface water or being discharges onto permeable soil. Clean up as soon as possible to prevent contamination to spread. Dispose of cleaning materials in an appropriate way. Pay attention to the potential for auto ignition of oil contaminated rags

Procedures for cleaning / collecting spills

Collect damper oil with a material(s) suited to absorb oil and dispose of contaminated materials according to the MATERIAL SAFETY DATA SHEET FOR PRODUCT REFERENCE TWIN Tube regulations. Be aware some oil contaminated absorbents have the potential for auto ignition

Supplementary advice

NA

07 = HANDLING AND STORAGE: COMPLETE PRODUCT

Handling

Keep product in original packing as long as possible. Avoid rough handling which may cause damage. Do not pierce or open other than at indicated location, follow instructions for disposal

Storage

Store product in original packing, consider product contains oil (fire prevention, fire load). Do not expose to temperature extremes (> 50°C nor < -10°C)

08 = EMPLOYEE EXPOSURE LIMITS & PERSONAL PROTECTION EQUIPMENT: DAMPER OIL CONTAINED IN PRODUCT

Supplementary advice for the configuration of technical plant when handling product

Product does not contain any relevant quantities of materials with critical values that would necessitate workplace monitoring.

Components with workplace-related limits which must be monitored

NA

Personal protection equipment

Application / use of adequate (oil resistant) hand and body protection is to be imposed when long time exposure is to be expected or in case of operator-specific requirements. Wear safety goggles if risk of spraying of oil exists.

Respiratory protection

Respiratory protection could be imposed / advised when oil mist escapes as product is pressurized.

Skin protection

In the event of extended exposure to skin and in case of specific employee requirements

Other Protection

09 = PHYSICAL AND CHEMICAL CHARACTERISTICS: DAMPER OIL CONTAINED IN PRODUCT

Physical State Color - Smell - Odor

Prevent damper oil from coming into contact with skin. Immediately remove contaminated clothing and dispose of or clean adequately

Change in physical state		Method
Melting point or range	Not defined (indication for -45°C)	
Boiling point or range		
Density	0.84 g/ccm at 15°C	DIN 51 757
Vapour pressure	<0.1 bar	
Viscosity	12 mm²/ s kinematic	
Solvent separation test		
Solids content		
Solubility	Virtually insoluble in water, difficult to mix	
pH value	not applicable	
Flashpoint	140°C	ISO 2592
Ignition temperature	Not self igniting	

MATERIAL SAFETY DATA SHEET FOR PRODUCT REFERENCE TWIN/TRIPLE TUBE

Change in physical state			Method
Explosion limit in air (applies to the oil)	Lower	0.6%	
Explosion limit in air (applies to the oil)	Upper	6.5%	
Thermal decomposition	Expected above 360ºC		
Dangerous reactions when in contact with	Potential reaction with strong oxidizers		

10 = STABILITY AND REACTIVITY: DAMPER OIL CONTAINED IN PRODUCT

Conditions to avoid
Damper oil is stable under normal conditions and if used as specified.
Substances to avoid
Avoid contact with strong oxidizers.
Hazardous decomposition products
Product does not decompose under normal conditions. Decomposition products in case of a fire (extreme temperature conditions) can be considered non-hazardous under normal conditions.
Additional information NA

11 = TOXICOLOGICAL INFORMATION: DAMPER OIL CONTAINED IN PRODUCT

LD50, oral - rats
> 5000 mg/kg
LD50, dermal - rabbits
> 3000 mg/kg

12 = ECOLOGICAL INFORMATION: DAMPER OIL CONTAINED IN PRODUCT

Elimination details (persistence and degradability)
Apply disposal procedure (separate document). In summary = drain oil, separate other components if needed, recycle, or dispose each in an appropriate way according to local legislation. Oil is not completely biodegradable.
Eco-toxically effect
Further information on ecological effect: WGK2, water-hazard.
Additional Information
For Germany = Water Endangering Class 1 (self assessment): slightly hazardous

13 = DISPOSAL INFORMATION : COMPLETE PRODUCT

Seperating methodology
Apply disposal procedure (separate document). Separate components or materials using adequate processes and handling techniques to minimize overall environmental impact. Majority of product can be recycled through steel scrap recycling systems. Do not re-use product at end of life.
Elimination details (persistence and degradability)

Materials Used	Code	Name
Mineral oil	130113	Other waste oil / Hydraulic oil
Nitrogen		Nitrogen
Steel Parts	160117	Steel Scrap
Plastic Parts	160119	Plastic and Rubber Waste
Aluminum Parts	160118	Aluminum Scrap
Packing Materials	160118	Packing Materials

14 = TRANSPORT REGULATIONS (**): COMPLETE Product Generally Applicable: Products properly packed, securely attached and protected from exposure from the elements. Impact protection should be installed whenever needed

Air transport					
ICAO / IATA	Class 2.2		Product Name	Shock absorber : May contain up to 0,5 l of compressed gas (nitrogen) at a pressure of 5 to 30 bar and hydrailic oil. Maximum product of pressure and volume is around 20 bar * l.	UN number
Warning signs, Labelling Marking				Compressed, liquidized and under pressure solved gases (Nitrogen) - Pressurized Container	
			Description of Goods	Articles , pressurized, pneumatic or hydraulic, containing non-flammable gas	3164
Net Explosive Quantity	Not applicable			Products are compliant with Special provision A114	
Land transport (Rail - Road) - Inland Waterway					
ADR / RID / ADN	Class 2.2		Product Name	Shock absorber : May contain up to 0,5 l of compressed gas (nitrogen) at a pressure of 5 to 30 bar and hydrailic oil. Maximum product of pressure and volume is around 20 bar * l.	UN number
Warning signs, Labelling Marking		Code 6A		Compressed, liquidized and under pressure solved gases (Nitrogen) - Pressurized Container	
			Description of Goods	Articles , pressurized, pneumatic or hydraulic, containing non-flammable gas	3164
Net Explosive Quantity	Not applicable			Products are compliant with Special Provisions 283.	
Maritime transport					
IMDG	Class 2.2		Product Name	Shock absorber : May contain up to 0,5 l of compressed gas (nitrogen) at a pressure of 5 to 30 bar and hydrailic oil. Maximum product of pressure and volume is around 20 bar * l.	UN number
Warning signs, Labelling Marking				Compressed, liquidized and under pressure solved gases (Nitrogen) - Pressurized Container	
			Description of Goods	Articles , pressurized, pneumatic or hydraulic, containing non-flammable gas	3164
Marine pollutant	No				
Net Explosive Quantity	Not applicable			Products are compliant with Special Provision 283.	
Post transport					
	Prohibited				

MATERIAL SAFETY DATA SHEET FOR PRODUCT REFERENCE TWIN/TRIPLE TUBE

15 = REGULATIONS: DAMPER OIL CONTAINED IN PRODUCT

Certification according to EU guidelines

Hazardous substance regulations dated 26.10.1993 Reference damper oil

National regulations

Classification according to VBF	No
Technical instructions - AIR (TA-Luft)	Class 3
Water balance law	WGK 2, water hazard
Employment restrictions	None
Incident regulations	

16 = MISCELLANEOUS : DAMPER OIL CONTAINED IN PRODUCT

Tolerance values from the professional institute for health and safety at work
Aerosol Concentrations = 5 mg/m³
Vapor & Aerosol Concentrations = 20 mg/m³
General precautions
The standard safety measures for handling mineral oil products must be followed.

17 = DISCLAIMER

The information provided on this MSDS is based upon the present state of Tenneco's knowledge, information, and belief at the date of its publication. This safety data sheet has been compiled and is solely intended for this product. The information given is designed only as a guide and offered for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty, or quality specification. The information shall not be used for any other purpose. Since neither product use nor transport is within control of Tenneco, it is user's obligation to determine conditions of safe product use and transport and to satisfy itself that the information is suitable and complete for its particular use. As such it is advised to regularly check for any updates as they become available.