

01 = COMPANY DATA & PRODUCT IDENTIFICATION

91/155/EWG & 88/379/EEC ***-18080-*** Brand name / part number

Details of supplier **TENNECO**

Address of supplier MSDS Data
Phone number of supplier Schurhovenveld 1037 3800 Sint Truiden BELGIUM

+ 32 11 703 000

Product Contact Person
Phone number Contact Person **Bart Boschmans** +32 11 703 300 =

Emergency information number
Poison Kev Data Reference + 32 11 216 216

Poison Key Data Reference MINERAL OIL CONTACT

02 = COMPOSITION - COMPONENTS

Chemical characteristics

Applies to : COMPLETE PRODUCT

% W	% V	Components	Hazard Symbol	R Sentence(s)
		Mineral oil	NA	Xn - R65
		Nitrogen	NA	
		Steel Parts	NA	
		Plastic Parts	NA	
		Aluminum Parts	NA	

03 = POTENTIAL HAZARDS

Applies to : DAMPER OIL CONTAINED IN PRODUCT

Description of potential hazards

Intensive, lengthy and repeated skin contact with mineral oil can lead to skin irritation

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

Applies to : 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

Applies to : COMPLETE PRODUCT

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 high 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 fire-fighting

Ensure that protective equipment is suitable for background fires as well

06 = MEASURES IN CASE OF RELEASE OF PRODUCT

Applies to: DAMPER OIL CONTAINED IN PRODUCT

Personal safety measures

Prevent damper oil from coming into contact with skin. Immediately remove contaminated clothing and dispose off 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 off 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 regulations. Be aware some oil contaminated absorbants have the potential for auto ignition

Supplementary advice

NA

07 = HANDLING AND STORAGE

Applies to: 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 then 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

Applies to : 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

Component	TLV		
NA	NA		

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 pressurised

Skin protection

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

Other Protection

09 = PHYSICAL AND CHEMICAL CHARACTERISTICS

Applies to: 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 off 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 mm ² / s kinematic	
Solvent separation test		
Solids content		
Solubility	Virtually insoluble in water, difficult to mix	
pH value	not applicable	
Flashpoint	140 oC	ISO 2592
Ignition temperature	Not self igniting	
Explosion limit in air	Lower 0.6%	
	Upper 6.5%	
Thermal decomposition	Expected above 360 oC	
Dangerous reactions when in contact with	Potential reaction with strong oxidizers	

10 = STABILITY AND REACTIVITY

Applies to: 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 ico fire (extreme temperature conditions) can be considered non-hazardous under normal conditions

Additional information

NA

11 = TOXICOLOGICAL INFORMATION

Applies to : DAMPER OIL CONTAINED IN PRODUCT

LD50, oral - rats > 5000 mg/kg

LD50, dermal - rabbits

> 3000 mg/kg

12 = ECOLOGICAL INFORMATION

Applies to : COMPLETE 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

Applies to : COMPLETE PRODUCT

Seperating methodology

Apply disposal procedure (separate document). Seperate 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

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

Applies to : COMPLETE PRODUCT

Elimination details (persistence and degradability)

Products properly packed, securely attached and protected from exposure from the elements. Impact protection should be installed whenever needed

Land transport (road/rail, national and international)

GGVSE/ADR/RID	Class 2	Class-Code	6A		
Warning sign		Hazard no		UN number	3164
Description of goods	Articles , pressurized, p	oneumatic or hydraulic, conta	aining non-flam	mable gas	
Net Explosive Quantity	Not applicable				

Transport by Inland waterways

Tanoport by miana matermayo					
ADN/ADNR	Class 2	Class-Code	6A		
Warning sign		Hazard no		UN number	3164
Description of goods	Articles , pressurized, p	oneumatic or hydraulic, conta	aining non-flam	mable gas	
Net Explosive Quantity	Not applicable				

Ocean-going ship transport

IMDG/GGVSeeClass	Class 2.2	Class-Code		
Warning sign		Hazard no	UN number	3164
Marine pollutant	No			
Proper Shipping Name				
Net Explosive Quantity	Not applicable			

Air transport

mi tranoport					
ICAO / IATA	Class 2	Class-Code			
Warning sign		Hazard no		UN number	3164
Description of goods	Articles , pressurized, p	oneumatic or hydraulic, conta	ining non-flam	mable gas	
Net Explosive Quantity	Not applicable				

Post transport

Description of goods	Articles , pressurized, pneumatic or hydraulic, containing non-flammable gas
	Suited for national general postal distribution compliant regulation No. 283 and 594 ADR/RID
	Suited for airmail, national / international

15 = REGULATIONS

Applies to: 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

Applies to: DAMPER OIL CONTAINED IN PRODUCT

Tolerance values from the professional institute for health and safety at work

Aerosol Concentrations = 5 mg/m³

Vapour & Aerosol Concentrations = 20 mg/m³

General precautions

The standard safety measures for handling mineral oil products must be followed.

17 = DISCLAIMER

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