SAFETY DATA SHEET

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AirCon Service

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Denso ND8

Section 1. Identification		
Product identifier	: Denso ND8	
Product code	: Not available.	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of t	the substance or mixture and uses advised against	
Product use	: grease.	
Area of application	: Professional applications.	
Supplier/Manufacturer	: Dometic Germany GmbH Hollefeldstr. 63 48282 Emsdetten Tel.: +49 (0) 2572 879 0 E-Mail: info@dometic-waeco.de Homepage: www.waeco.com	
e-mail address of person responsible for this SDS	: info@chemical-check.de; k.schnurbusch@chemical-check.de	
Emergency telephone number (with hours of operation)	: +49 (0) 700 / 24 112 112 (CCWA) +1 872 5888271 (CCWA)	

Section 2. Hazard(s) identification

Classification of the substance or mixture : H317 SKIN SENSITISATION - Cat REPRODUCTIVE TOXICITY GHS label elements Hazard pictograms : Signal word : DANGER Hazard statements : H317 - May cause an allergic skin reaction.	egory 1
Hazard pictograms : Signal word : DANGER	 Category 1
Signal word : DANGER	
-	
Hazard statements	
H360 - May damage fertility or the unborn c	hild.
Precautionary statements	
Prevention: P201 - Obtain special instructions before use. P280 - Wear protective gloves: 4 - 8 hours (bre Nitrile gloves. (> 0.3 mm). Protective hand creat Recommended: Long-sleeved protective clothin 	am Wear protective clothing:
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Section 2. Hazard(s) identification

Response	:	 P308 + P313 - IF exposed or concerned: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
Storage	1	Not applicable.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	Not applicable.
Other hazards which do not	:	None known.

result in classification

Section 3. Composition and ingredient information

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

Ingredient name	% (w/w)	CAS number
Poly[oxy(methyl-1,2-ethanediyl)], .alphamethylomegamethoxy-	≥90	24991-61-5
tetradecyloxirane	≤3	7320-37-8
tris(methylphenyl) phosphate	<1	1330-78-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

Section 4. First aid measures

Description of necessary 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	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. 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.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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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. 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>ots</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/sym</u>	<u>ptoms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

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Section 5. Firefighting measures

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Extinguishing media	
Suitable extinguishing media	: In case of fire, use water spray (fog), foam, dry chemical or CO ₂ .
Unsuitable extinguishing media	: Do not use water jet.
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 phosphorus oxides Toxic gases
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.
Hazchem code	: •3Z

Section 6. Accidental release measures

Personal precautions, protective 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised 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 spilt 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 material for cor	nta	inment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and
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Section 6. Accidental release measures

Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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 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. Store locked up. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
tris(methylphenyl) phosphate	DFG MAC-values list (Germany, 10/2021). [tricresyl phosphate] TWA: 5 mg/m ³ 8 hours. Form: inhalable fraction PEAK: 10 mg/m ³ , 4 times per shift, 15 minutes. Form: inhalable fraction

Appropriate engineering controls	enclosure	perations generate dust, fun es, local exhaust ventilation e to airborne contaminants b	or other engineering con	trols to keep wo	
Environmental exposure controls	they com cases, fu	ns from ventilation or work p ply with the requirements o ime scrubbers, filters or eng nt will be necessary to reduc	f environmental protection gineering modifications to	n legislation. In the process	
Individual protection meas	ures				
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Section 8. Exposure controls and personal protection

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Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 4 - 8 hours (breakthrough time): Recommended: Nitrile gloves. (> 0.3 mm). Protective hand cream.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Long-sleeved protective clothing. Safety shoes.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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.

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Flammability	: Not availa	ble.			
Evaporation rate	: Not availa	ble.			
Flash point	: Open cup	: 204°C (399.2°F) [Clevelar	nd]		
Boiling point, initial boiling point, and boiling range	: Not availa	ble.			
Melting point/freezing point	: Not availa	ble.			
рН	: Not applic	able.			
Odour threshold	: Not availa	ble.			
Odour	: Character	istic.			
Colour	: Yellow. [Li	ight]			
Physical state	: Liquid.				
Appearance					

Section 9. Physical and chemical properties and safety characteristics

Lower and upper explosion limit/flammability limit	:	Not available.		
Vapour pressure	:	Not available.		
Relative vapour density	1	Not available.		
Relative density	:	Not available.		
Density	:	0.9944 g/cm ³		
Solubility(ies)	1	Media	Result	
		cold water hot water	Not soluble Not soluble	
Miscible with water	1	No.		
Partition coefficient: n- octanol/water	:	Not applicable.		
Auto-ignition temperature	:	Not available.	Not available.	
Decomposition temperature	:	Not available.	Not available.	
Viscosity	:	Kinematic (40°C (104°F)): 4	43.32 mm²/s (43.32 cSt)	
Flow time (ISO 2431)	:	Not available.		
Particle characteristics				
Median particle size	1	Not applicable.		
Other information				
Pour point	:	-45°C (-49°F)		
Physical/chemical properties comments	:	Not considered to be a pro	duct presenting a risk of explosion.	

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials.
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
tetradecyloxirane	LD50 Oral	Rat	>5000 mg/kg	-
tris(methylphenyl) phosphate	LD50 Dermal	Rabbit	>10000 mg/kg	-
	LD50 Oral	Rat	3 g/kg	-
Conclusion/Summary	: Not available.			
Irritation/Corrosion				
Conclusion/Summary				
Skin	: Not available.			
Eyes	: Not available.			
Respiratory	: Not available.			
<u>Sensitisation</u>				
Conclusion/Summary				
Skin	: Not available.			
Respiratory	: Not available.			
<u>Mutagenicity</u>				
Conclusion/Summary	: Not available.			
Carcinogenicity				
Conclusion/Summary	: Not available.			
Reproductive toxicity				
Conclusion/Summary	: Not available.			
Teratogenicity				
Conclusion/Summary	: Not available.			
Specific target organ toxicit	<u>y (single exposure)</u>			

Name		Route of exposure	Target organs
tris(methylphenyl) phosphate	Category 1	-	-

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
tris(methylphenyl) phosphate	Category 2	-	-

Aspiration hazard

Not available.

Information on likely routes : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. **of exposure**

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.

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Section 11. Toxicological information

Ingestion

: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ec	t <u>s</u>
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

•	Oral (mg/ kg)		(gases)	V • P • • • • •	Inhalation (dusts and mists) (mg/l)
tris(methylphenyl) phosphate	3000	N/A	N/A	N/A	N/A

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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
tetradecyloxirane	Acute EC50 0.002 mg/l Fresh water	Algae	72 hours
Conclusion/Summary	: Not available.	-	-

Persistence and degradability

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
tetradecyloxirane	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
tris(methylphenyl) phosphate	5.93	-	high

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.

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

Section 13. Disposal considerations

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

Section 14. Transport information

	ADG	ADR/RID	IMDG	ΙΑΤΑ
UN number	UN3082	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tetradecyloxirane)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tetradecyloxirane)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (tetradecyloxirane)	Environmentally hazardous substance, liquid, n.o.s. (tetradecyloxirane)
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Section 14.	Transport info	ormation		
Transport hazard class(es)	9	9	9	9
Packing group	111	111	111	111
Environmental hazards	Yes.	Yes.	Yes.	Yes.
Additional informa	tion	I		I
ADG ADR/RID	in either as a dan packagir <u>Hazcher</u> <u>Special</u> : This pro or ≤5 kg and 4.1.	an IBC, or in other cont agerous good when tran ngs meet the general pr <u>m code</u> •3Z <u>provisions</u> 274, 331, 3 duct is not regulated as	ainer types if ≤500 kg. T sported in sizes of ≤5 L o ovisions of 4.1.1.1, 4.1.1 35, 375, AU01 a dangerous good wher gs meet the general prov	transported by road or rail This product is not regulated or ≤ 5 kg, provided the .2 and 4.1.1.4 to 4.1.1.8. In transported in sizes of ≤ 5 <i>v</i> isions of 4.1.1.1, 4.1.1.2
IMDG	Special Tunnel This pro or ≤5 kg and 4.1. Emerge	duct is not regulated as	a dangerous good wher gs meet the general prov =	n transported in sizes of ≤5 visions of 4.1.1.1, 4.1.1.2
ΙΑΤΑ	: This pro or ≤5 kg 5.0.2.6.1 <u>Quantit</u> 964. Ca Passeng	duct is not regulated as , provided the packaging I.1 and 5.0.2.8. <u>y limitation</u> Passenger Irgo Aircraft Only: 450 L	a dangerous good wher gs meet the general prov and Cargo Aircraft: 450 Packaging instructions: aging instructions: Y964	L. Packaging instructions: 964. Limited Quantities -
Special precautions	upright a		persons transporting the	closed containers that are e product know what to do i
Transport in bulk a		lable.		

to IMO instruments

Section 15. Regulatory information

Standard for the Uniform S	cheduling of M	ledicines and Poisons				
Not regulated.						
Model Work Health and Sa	fety Regulatior	ns - Scheduled Substance	<u>es</u>			
No listed substance						
Australia inventory (AIIC)	: All compo	onents are listed or exempte	ed.			
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Section 15. Regulatory information

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not 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

Not listed.

Section 16. Any other relevant information

<u>History</u>	
Date of issue/Date of revision	: 09/03/2023
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Version	: 1
Prepared by	: Chemical Check GmbH
Key to abbreviations	 ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road 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 SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations

Procedure used to derive the classification

Classification		Justification
SKIN SENSITISATION REPRODUCTIVE TO		Calculation method Calculation method
REPRODUCTIVE TOXICITY - Category 1 References : Work Health and Safety Regulations 2011, as amm Preparation of Safety Data Sheets for Hazardous O Work Australia Australian Code for the Transport of Dangerous Go National Transport Commission		Chemicals, Code of Practice, Safe
	on that has abanged from providually issued version	

Indicates information that has changed from previously issued version.

Notice to reader

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Section 16. Any other relevant information

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.