Vers 3.0	ion	Revision Date: 05/02/2022		S Number: 001009994	Date of last issue: 08/26/2020 Date of first issue: 12/09/2015
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SEC	TION 1	. IDENTIFICATION			
	Produc	t name	:	ARATHANE® 57	753 A
	Manufa	acturer or supplier's c	letai	ls	
	Compa Addres	ny name of supplier s		Huntsman Advar P.O. Box 4980 The Woodlands, TX 77387 United States of	
	Teleph	one	:	Non-Emergency	: (800) 257-5547
		address of person sible for the SDS	:	Global_Product_	EHS_AdMat@huntsman.com
	Emerge	ency telephone number	r:	Chemtrec: (800)	424-9300 or (703) 527-3887
	Recom	mended use of the cl	hem	ical and restriction	ons on use
	Recom	mended use	:	Component used parts	d for the manufacture of electrical insulation

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord 1910.1200)	GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)		
Acute toxicity (Inhalation)	: Category 4		
Skin irritation	: Category 2		
Eye irritation	: Category 2A		
Respiratory sensitisation	: Category 1		
Skin sensitisation	: Category 1		
Specific target organ toxicity - single exposure	: Category 3 (Respiratory system)		
Specific target organ toxicity - repeated exposure (Inhalation)	: Category 2		
Short-term (acute) aquatic hazard	: Category 2		
GHS label elements			

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Hazard pictograms			Print Date 05/03/2022	
Signa	l word	: Danger		
Hazard statements		 H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure if inhaled. H401 Toxic to aquatic life. 		
Precautionary statements		P264 Wash ski P271 Use only P272 Contamir the workplace. P273 Avoid rele P280 Wear pro P285 In case of protection. Response: P302 + P352 If P304 + P340 + and keep comf doctor if you fe P305 + P351 + for several min to do. Continue P333 + P313 If attention. P337 + P313 If attention. P342 + P311 If POISON CENT P362 Take off Storage: P403 + P233 S tightly closed. P405 Store loc Disposal: P501 Dispose of	P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and easy erinsing. skin irritation or rash occurs: Get medical advice/ eye irritation persists: Get medical advice/ experiencing respiratory symptoms: Call a TER/ doctor. contaminated clothing and wash before reuse. Store in a well-ventilated place. Keep container	

Other hazards

None known.





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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
4,4'-methylenediphenyl diisocyanate	101-68-8	50 - 70
Benzene, 1,1'-methylenebis[isocyanato-, homopolymer	39310-05-9	20 - 30
2,4'-methylenediphenyl diisocyanate	5873-54-1	1 - 5
triethyl phosphate	78-40-0	1 - 5

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice	: Move out of dangerous area. Do not leave the victim unattended. Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.
If inhaled	 If breathed in, move person into fresh air. Call a physician or poison control centre immediately. Keep patient warm and at rest. Keep respiratory tract clear. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. If unconscious, place in recovery position and seek medical advice. Consult a physician immediately if symptoms such as shortness of breath or asthma are observed. A hyper-reactive response to even minimal concentrations of diisocyanates may develop in sensitised persons. The exposed person may need to be kept under medical surveillance for 48 hours. LC50 (rat) : ca. 490 mg/m³ (4 hours) : using experimentally produced respirable aerosol having aerodynamic diameter <5microns. Methods used to generate the exposure concentrations in the animal studies use extreme laboratory conditions and does not represent actual exposure conditions of the material in the workplace, storage, transportation or expected use on the market due to the very low vapor pressure. Therefore, these test results cannot be used to for hazard classification of the

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		based on weigh	Print Date 05/03/2022 er, an acute toxicity estimate is calculated at of evidence and expert judgement and is a modified classification for acute inhalation	
In case of skin contact		 In case of contact, immediately flush skin with soap and plen of water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse. Call a physician if irritation develops or persists. An MDI study has demonstrated that a polyglycol-based skin cleanser (such as D-Tam[™], PEG-400) or corn oil may be more effective than soap and water. 		
In c	case of eye contact	for at least 15 n If easy to do, re Protect unharm	emove contact lens, if worn. ed eye. open while rinsing.	
lf s	wallowed	DO NOT induce physician or po Keep respirator Keep at rest. If a person vom recovery position Never give any Take victim imm	its when lying on his back, place him in the	
and	st important symptoms d effects, both acute and ayed	anaphylactic sh This product is sensitiser: repe above the occu sensitisation. Symptoms may lungs, possibly of chest and dif The onset of th several hours a A hyper-reactiv	a respiratory irritant and potential respiratory ated inhalation of vapour or aerosol at levels pational exposure limit could cause respiratory r include irritation to the eyes, nose, throat and combined with dryness of the throat, tightness ficulty in breathing. e respiratory symptoms may be delayed for	
Pro	tection of first-aiders	suitable training It may be dang mouth-to-mouth If potential for e personal protect First Aid respor	erous to the person providing aid to give	



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Notes to physician		:	Print Date 05/03/2022 : Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.				
				ocedure should be established in consultation responsible for industrial medicine.			
SECTION	SECTION 5. FIREFIGHTING MEASURES						
Suital	ble extinguishing media	a :		ing measures that are appropriate to local and the surrounding environment.			

Carbon dioxide (CO2)

		Dry powder
Unsuitable extinguishing media	:	Water may be used if no other available and then in copious quantities. Reaction between water and hot isocyanate may be vigorous.
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses. The pressure in sealed containers can increase under the influence of heat. Exposure to decomposition products may be a hazard to health.
Hazardous combustion products	:	Combustion products may include: carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons and HCN. In the event of extreme heat (>500 degrees C), aniline is suspected of being formed.
Specific extinguishing methods	:	Cool containers/tanks with water spray.
Further information	:	Standard procedure for chemical fires. Due to reaction with water producing CO2-gas, a hazardous build-up of pressure could result if contaminated containers

		Due to reaction with water producing CO2-gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	:	Immediately evacuate personnel to safe areas.
protective equipment and		Use personal protective equipment.
emergency procedures		If specialised clothing is required to deal with the spillage, take

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Env	ironmental precautions	 materials. Ensure adequative sequence of the sequence of the sequence of the sequence of the section 7. Never return sponter of the section 7. Never return sponter of the sequence of the sections of the sequence of the	way from and upwind of spill/leak. bersonnel equipped with suitable protective y intervene. brecautions and advice on safe handling, see bills in original containers for re-use. there is a sufficient amount of neutralizing/ erial near the storage area. eas must be delimited and identified using and safety signs. d material as described in the section "Disposal
		Prevent produc Prevent further Local authoritie cannot be cont	et from entering drains. leakage or spillage if safe to do so. es should be advised if significant spillages ained. ontaminates rivers and lakes or drains inform
	hods and materials for tainment and cleaning up	Contain spillag material, (e.g. s and transfer to national regular Clean contamin Sweep up or va container for di Neutralize sma The compositio Section 16. Remove and di Clean-up metho If the product is Spilled MDI flat The area shoul dust particles c If the product is Soak up with in acid binder, un Leave to react Shovel into ope Wash the spilla	Il spillages with decontaminant. ons of liquid decontaminants are given in ispose of residues. ods - large spillage s in its solid form: kes should be picked up carefully. d be vacuum cleaned to remove remaining

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ECTION	7. HANDLING AND ST	OR	AGE	
Techr	nical measures	:	Ensure that eye the workstation	wash stations and safety showers are close to location.
Local	/Total ventilation	:	Use only with a	dequate ventilation.
	e on protection against nd explosion	:	Normal measur	es for preventive fire protection.
Advic	e on safe handling	:	Avoid formation Do not breathe Do not breathe Do not swallow. Do not get in ey Do not get on sl Avoid exposure Smoking, eating application area Provide sufficient Keep container Open drum care Dispose of rinse regulations. Persons suscep allergies, chroni be employed in used. Industrial use of	vapours or spray mist. vapours/dust. res or mouth or on skin. kin or clothing. - obtain special instructions before use. g and drinking should be prohibited in the
Condi	itions for safe storage	:	ventilated place Keep in properly Observe label p Protect from mo Electrical install the technologica Containers whic	y labelled containers. precautions.
Mater	ials to avoid	:	For incompatible SDS.	e materials please refer to Section 10 of this
	mmended storage erature	:	64 - 104 °F / 18	- 40 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis



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			(Form of exposure)	parameters / Permissible concentration	
	nethylenediphenyl syanate	101-68-8	TWA	0.005 ppm	ACGIH
			TWA	0.005 ppm 0.05 mg/m3	NIOSH REL
			С	0.02 ppm 0.2 mg/m3	NIOSH REL
			С	0.02 ppm 0.2 mg/m3	OSHA Z-1
			С	0.02 ppm 0.2 mg/m3	OSHA P0
	nethylenediphenyl syanate	5873-54-1	С	0.02 ppm 0.2 mg/m3	OSHA Z-1
			TWA	0.005 ppm 0.05 mg/m3	NIOSH REL
			С	0.02 ppm 0.2 mg/m3	NIOSH REL
			С	0.02 ppm 0.2 mg/m3	OSHA P0

Personal protective equipment

Respiratory protection :	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. In emergency, non-routine and unknown exposure situations, including confined space entries, a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA)or a full facepiece pressure demand supplied air respirator (SAR) with auxiliary self-contained air supply, should be used.
Hand protection	
Remarks :	The suitability for a specific workplace should be discussed with the producers of the protective gloves. Protective gloves should be worn when handling freshly made polyurethane products to avoid contact with trace residual materials which may be hazardous in contact with skin.
	Use chemical resistant gloves classified under Standard EN374: protective gloves against chemicals and microorganisms. Examples of glove materials that might provide suitable protection include: Butyl rubber, Chlorinated polyethylene, Polyethylene, Ethyl vinyl alcohol copolymers laminated ("EVAL"), Polychloroprene (Neoprene*), Nitrile/butadiene rubber ("nitrile" or "NBR"), Polyvinyl chloride ("PVC" or "vinyl"), Fluoroelastomer (Viton*).
	When prolonged or frequently repeated contact may occur, a glove with protection class of 5 or higher (breakthrough time

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		greater than 24 recommended	Print Date 05/03/2022 40 minutes according to EN374) is
		class of 3 or hi minutes accord Notice: The se application and take into accou not limited to : requirements (protection), as the glove supp By industrial us	ef contact is expected, a glove with protection gher (breakthrough time greater than 60 ding to EN374) is recommended. lection of a specific glove for a particular d duration of use in a workplace should also unt all requisite workplace factors such as, but other chemicals that may be handled, physical cut/puncture protection, dexterity, thermal well as instructions/specifications provided by lier se of aprotic polar solvents for cleaning : Butyl h), Nitrile rubber (0.4mm), Chloroprene (0.5mm)
Eye p	rotection	be used when to avoid expos Chemical splay Always wear e eye contact wi Please follow a selecting prote	ye protection when the potential for inadvertent th the product cannot be excluded. all applicable local/national requirements when active measures for a specific workplace. ewash stations and safety showers are close
Skin a	and body protection	concentration Recommende Overall (prefer	protection according to the amount and of the dangerous substance at the work place.
Prote	ctive measures	gloves, safety The type of pro to the concent at the specific Ensure that ey	active equipment comprising: suitable protective goggles and protective clothing betective equipment must be selected according ration and amount of the dangerous substance workplace. e flushing systems and safety showers are o the working place.
Hygie	ne measures	practice. Wash face, ha handling. Remove conta before entering When using do Contaminated workplace. Wash hands b the product.	ordance with good industrial hygiene and safety nds and any exposed skin thoroughly after minated clothing and protective equipment g eating areas. o not eat, drink or smoke. work clothing should not be allowed out of the efore breaks and immediately after handling efore breaks and at the end of workday.



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SECTION	9. PHYSICAL AND CH	EMIC	CAL PROPERT	TES
Appea	arance	:	liquid	
Colou	r	:	yellow	
Odou	r	:	slight	
Odou	r Threshold	:	No data is ava	ailable on the product itself.
рН		:	substance/mix	xture reacts with water
Meltin	ng point/freezing point	:	No data availa	able
Boilin	g point/boiling range	:	597 °F / 314 °	С
Flash	point	:	> 351 °F / > 1 Method: Pens	77 °C ky-Martens closed cup
Evapo	pration rate	:	No data is ava	ailable on the product itself.
Flamr	nability (solid, gas)	:	No data is ava	ailable on the product itself.
Flamr	nability (liquids)	:	No data is ava	ailable on the product itself.
	r explosion limit / Upper nability limit	:	No data is ava	ailable on the product itself.
	r explosion limit / Lower nability limit	:	No data is ava	ailable on the product itself.
Vapou	ur pressure	:	< 0.0004 hPa	(77 °F / 25 °C)
Relati	ve vapour density	:	No data is ava	ailable on the product itself.
Relati	ve density	:	1.2	
Densi	ty	:	1.2 g/cm3	
	ility(ies) ater solubility	:	Water reactive	e
Sol	ubility in other solvents	:	No data is ava	ailable on the product itself.
	on coefficient: n-	:	No data is ava	ailable on the product itself.
	ol/water ignition temperature	:	No data is ava	ailable on the product itself.
Decor	mposition temperature	:	No data is ava	ailable on the product itself.
	Accelerating nposition temperature	:	No data is ava	ailable on the product itself.

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Visco Vis	sity cosity, dynamic	: 50 mPa.s (77	°F / 25 °C)
Explo	sive properties	: No data is ava	ailable on the product itself.
Oxidi	zing properties	: No data is ava	ailable on the product itself.
Moleo	cular weight	: No data availa	able
Partic	ele size	: No data is ava	ailable on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Reaction with water (moisture) produces CO2-gas. Exothermic reaction with materials containing active hydrogen groups. The reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of the reaction partners is good or is supported by stirring or by the presence of solvents. MDI is insoluble with, and heavier than water and sinks to the bottom but reacts slowly at the interface. A solid water-insoluble layer of polyurea is formed at the interface by liberating carbon dioxide gas.
Conditions to avoid	:	Extremes of temperature and direct sunlight. Exposure to air or moisture over prolonged periods.
Incompatible materials	:	Acids Amines Bases Metals water
Hazardous decomposition products	:	Combustion products may include: carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons and HCN. In the event of extreme heat (>500 degrees C), aniline is suspected of being formed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity		
Product:		
Acute inhalation toxicity	:	Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations. Remarks: Methods used to generate the exposure concentrations in the animal studies use extreme laboratory



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		of the material i expected use o pressure. Ther hazard classific estimate is calc	Print Date 05/03/202 does not represent actual exposure conditions in the workplace, storage, transportation or in the market due to the very low vapor refore, these test results cannot be used to for cation of the material. Rather, an acute toxicity culated based on weight of evidence and exper- is used to justify a modified classification for in toxicity.
		Acute toxicity e Exposure time: Test atmospher Method: Calcul	re: dust/mist
Com	oonents:		
4,4'-n	nethylenediphenyl d	iisocyanate:	
Acute	inhalation toxicity	Exposure time: Test atmosphered Method: OECD	re: dust/mist Test Guideline 403 he component/mixture is moderately toxic afte
Acute	e dermal toxicity	: LD50 (Rabbit): Remarks: Infor similar substan	mation given is based on data obtained from
Benz	ene. 1.1'-methvlenet	ois[isocyanato-, homo	ppolymer:
	e oral toxicity	: LD50 (Rat, fem Method: OECD	ale): > 5,000 mg/kg Test Guideline 425 he substance or mixture has no acute oral
Acute	inhalation toxicity	Exposure time: Test atmosphered Method: OECD	re: dust/mist Test Guideline 403 he component/mixture is moderately toxic afte
Acute	e dermal toxicity		nale and female): > 9,400 mg/kg Test Guideline 402
2,4'-n	nethylenediphenyl d	iisocyanate:	
	inhalation toxicity	: LC50 (Rat): 0.4 Exposure time: Test atmosphere	4 h re: dust/mist he component/mixture is moderately toxic afte
Acute	e dermal toxicity		nale and female): > 9,400 mg/kg Test Guideline 402

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trieth	yl phosphate:			Print Date 05/03	3/2022
	e oral toxicity	:	LD50 (Rat): 1,60 Assessment: Th single ingestion.	e component/mixture is moderately toxic	after
Acute	inhalation toxicity	:	Exposure time: 4		
Acute	e dermal toxicity	:	LD50 (Rabbit): >	20,000 mg/kg	
Skin	corrosion/irritation				
<u>Com</u>	ponents:				
4,4'-n	nethylenediphenyl di	iisocy	anate:		
Speci Asses Metho Resu	ssment od	:	Rabbit Irritating to skin. OECD Test Guid Irritating to skin.	leline 404	
Benz	ene, 1,1'-methyleneb	ois[isc	cyanato-, homoj	oolymer:	
Speci	ies	:	Rabbit		
Resu	lt	:	Skin irritation		
2.4'-n	nethylenediphenyl di	iisocv	anate:		
, Speci		:	Rabbit		
	ssment	:	Irritant		
Metho		:	OECD Test Guid	leline 404	
Resu	lt	:	Irritating to skin.		
trieth	yl phosphate:				
Speci		:	Rabbit		
	ssment	:	No skin irritation	Joline 404	
Metho Resu		:	OECD Test Guid No skin irritation	Jeline 404	
Serio	ous eye damage/eye i	irritati	on		
	ponents:				
4,4'-n	nethylenediphenyl di	iisocy	anate:		
Speci		:	Rabbit		
Resu		:	Irritating to eyes		
Asses Metho	ssment od	:	Irritating to eyes OECD Test Guid		
Benz	ene, 1,1'-methyleneb	ois[isc	cyanato-, homoi	oolymer:	
Speci		• :	Rabbit	-	
Resu		:	Mild eye irritation	1	
Math	~ d			Jalina 10E	

: OECD Test Guideline 405

Method





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sion							
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2 /l'-m	nethylenediphenyl o	diisocvanato:	Print Date 05/03/202				
Specie		: Humans					
Resul			es, reversing within 7 days				
	ssment						
Metho			: Mild eye irritant : OECD Test Guideline 405				
Rema		: Mild eye irritat					
trieth	yl phosphate:						
Specie		: Rabbit					
Resul	t	: Eye irritation					
Metho	bd	: OECD Test G	uideline 405				
Respi	iratory or skin sens	itisation					
<u>Comr</u>	oonents:						
4,4'-m	nethylenediphenyl o	diisocyanate:					
	sure routes	: Skin					
Specie		: Guinea pig					
Asses	ssment		nsitisation by skin contact.				
Metho		: OECD Test G					
Resul	t	: May cause se	nsitisation by skin contact.				
Test T			ode assay (LLNA)				
	sure routes	: Respiratory Tr	ract				
Specie		: Guinea pig					
	ssment		nsitisation by inhalation.				
Resul	t	: May cause se	nsitisation by inhalation.				
Δεερε	sment	: May cause a	llergy or asthma symptoms or breathing				
79945	Sinen		nhaled., May cause an allergic skin				
		difficulties if i reaction.	nhaled., May cause an allergic skin				
Benze	ene, 1,1'-methylene	difficulties if i reaction. bis[isocyanato-, hom	nhaled., May cause an allergic skin				
Benze Expos	ene, 1,1'-methylene sure routes	difficulties if i reaction. bis[isocyanato-, hom : Skin	nhaled., May cause an allergic skin				
Benze	ene, 1,1'-methylene sure routes es	difficulties if i reaction. bis[isocyanato-, hom	nhaled., May cause an allergic skin				
Benze Expos Specie	ene, 1,1'-methylene sure routes es od	difficulties if i reaction. bis[isocyanato-, hom : Skin : Guinea pig : OECD Test G	nhaled., May cause an allergic skin				
Benze Expos Specie Metho Result Expos	ene, 1,1'-methylene sure routes es od t tsure routes	difficulties if i reaction. bis[isocyanato-, hom : Skin : Guinea pig : OECD Test G	inhaled., May cause an allergic skin hopolymer: uideline 406 nsitisation by skin contact.				
Benze Expos Specie Metho Result Expos Specie	ene, 1,1'-methylene sure routes es od t sure routes es	difficulties if i reaction. bis[isocyanato-, hom : Skin : Guinea pig : OECD Test G : May cause se : Respiratory Tr : Guinea pig	inhaled., May cause an allergic skin hopolymer: uideline 406 nsitisation by skin contact. ract				
Benze Expos Specie Metho Result	ene, 1,1'-methylene sure routes es od t sure routes es	difficulties if i reaction. bis[isocyanato-, hom : Skin : Guinea pig : OECD Test G : May cause se : Respiratory Tr : Guinea pig	inhaled., May cause an allergic skin hopolymer: uideline 406 nsitisation by skin contact.				
Benze Expos Specie Metho Result Expos Specie Result	ene, 1,1'-methylene sure routes es od t sure routes es	difficulties if i reaction. bis[isocyanato-, hom : Skin : Guinea pig : OECD Test G : May cause se : Respiratory Tr : Guinea pig : May cause se	inhaled., May cause an allergic skin hopolymer: uideline 406 nsitisation by skin contact. ract				
Benze Expos Specie Metho Result Expos Specie Result Asses	ene, 1,1'-methylene sure routes es od t sure routes es t	difficulties if i reaction. bis[isocyanato-, hom : Skin : Guinea pig : OECD Test G : May cause se : Respiratory Tr : Guinea pig : May cause se : May cause s	inhaled., May cause an allergic skin iopolymer: uideline 406 nsitisation by skin contact. ract nsitisation by inhalation.				
Benze Expos Specie Metho Result Expos Specie Result Asses 2,4'-m	ene, 1,1'-methylene sure routes od t sure routes es t ssment	difficulties if i reaction. bis[isocyanato-, hom : Skin : Guinea pig : OECD Test G : May cause se : Respiratory Tr : Guinea pig : May cause se : May cause s	inhaled., May cause an allergic skin iopolymer: uideline 406 nsitisation by skin contact. ract nsitisation by inhalation.				
Benze Expos Specie Metho Result Expos Specie Result Asses 2,4'-m Expos	ene, 1,1'-methylene sure routes es od t sure routes es t ssment nethylenediphenyl o sure routes	difficulties if i reaction. bis[isocyanato-, hom : Skin : Guinea pig : OECD Test G : May cause se : Respiratory Tr : Guinea pig : May cause se : May cause s : May cause s : May cause s	inhaled., May cause an allergic skin iopolymer: uideline 406 nsitisation by skin contact. ract nsitisation by inhalation.				
Benza Expos Specia Metho Result Expos Specia Result Asses 2,4'-m Expos Specia	ene, 1,1'-methylene sure routes es od t sure routes es t ssment nethylenediphenyl o sure routes	difficulties if i reaction. bis[isocyanato-, hom : Skin : Guinea pig : OECD Test G : May cause se : Respiratory Tr : Guinea pig : May cause se : May cause s diisocyanate: : Skin : Mouse	inhaled., May cause an allergic skin iopolymer: uideline 406 nsitisation by skin contact. ract nsitisation by inhalation. ensitisation by inhalation and skin contact.				
Benza Expos Specia Metho Result Expos Specia Result Asses 2,4'-m Expos Specia	ene, 1,1'-methylene sure routes es od t sure routes es t ssment nethylenediphenyl o sure routes es es	difficulties if i reaction. bis[isocyanato-, hom : Skin : Guinea pig : OECD Test G : May cause se : Respiratory Tr : Guinea pig : May cause se : May cause s diisocyanate: : Skin : Mouse	inhaled., May cause an allergic skin iopolymer: uideline 406 nsitisation by skin contact. ract nsitisation by inhalation. ensitisation by inhalation and skin contact.				
Benze Expos Specie Metho Result Expos Specie Result Asses Specie Asses Result	ene, 1,1'-methylene sure routes es od t sure routes es t ssment nethylenediphenyl o sure routes es es	difficulties if i reaction. bis[isocyanato-, hom : Skin : Guinea pig : OECD Test G : May cause se : Respiratory Tr : Guinea pig : May cause se : May cause se : May cause se : Skin : Skin : Mouse : May cause se	inhaled., May cause an allergic skin iopolymer: uideline 406 nsitisation by skin contact. ract nsitisation by inhalation. ensitisation by inhalation and skin contact. Insitisation by skin contact.				

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ersion 0	Revision Date: 05/02/2022	SDS Number: 400001009994	Date of last issue: 08/26/2020 Date of first issue: 12/09/2015				
Assessment Result		Print Date 05/03/2022 : May cause sensitisation by inhalation. : Causes sensitisation.					
Asses	sment	: Mild eye irritatic	งท				
triethyl phosphate: Exposure routes Species Method Result							
Germ	cell mutagenicity						
<u>Comp</u>	oonents:						
4,4'-m	nethylenediphenyl di	isocyanate:					
Genot	oxicity in vitro	Test system: Sa Metabolic activa	erse mutation assay almonella typhimurium ation: with and without metabolic activation ve 67/548/EEC, Annex, B.13/14 e				
Genotoxicity in vivo		: Test Type: Micr Species: Rat (m Cell type: Soma Application Rou Exposure time: Dose: 113 mg/r Method: OECD Result: negative	nale) atic ute: Inhalation 3 Weeks n3 Test Guideline 474				
		Dose: 2.5/4.9/1	nale) cells ite: inhalation (dust/mist/fume) 2 mg/m3 Test Guideline 489				
Benze	ene, 1,1'-methyleneb	is[isocyanato-, homo	polymer:				
	toxicity in vitro	: Concentration: Metabolic activa	ca 50 ug/plate ation: with and without metabolic activation Test Guideline 471				
Genot	oxicity in vivo	: Application Rou Exposure time: Dose: 118 mg/r Method: OECD Result: negative	3 Weeks n3 Test Guideline 474				
	cell mutagenicity -	: Animal testing of	did not show any mutagenic effects.				



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rsion	Revision Date: 05/02/2022	SDS Number: 400001009994	Date of last issue: 08/26/2020 Date of first issue: 12/09/2015		
2,4'-m	ethylenediphenyl di	isocyanate:	Print Date 05/03/202		
Genotoxicity in vitro			ctivation: with and without metabolic activation CD Test Guideline 471 ative		
Genotoxicity in vivo		Exposure tin Dose: 118 m Method: OE	Application Route: Inhalation Exposure time: 3 w Dose: 118 mg/m3 Method: OECD Test Guideline 474 Result: negative		
triethy	/l phosphate:				
Genote	oxicity in vitro		ctivation: with and without metabolic activation CD Test Guideline 476 ative		
		Method: OE Result: nega	CD Test Guideline 482 ative		
Genote	oxicity in vivo		Route: Intraperitoneal injection CD Test Guideline 478 ative		
Carcir	nogenicity				
<u>Produ</u>	ct:				
Remai	rks	of polymeric irritation at h mg/m3), the of the lung (a (adenocarcin and no effect both benign the tumours incidence of respiratory in material in th the absence leading to ch unlikely that	een exposed for two years to a respirable aerosol MDI which resulted in a chronic pulmonary igh concentrations. Only at the top level (6 re was a significant incidence of a benign tumour adenoma) and one malignant tumour noma). There were no lung tumours at 1 mg/m3 ets at 0.2 mg/m3. Overall, the tumour incidence, and malignant, and the number of animals with were not different from controls. The increased lung tumours is associated with prolonged rritation and the concurrent accumulation of yellow he lung, which occurred throughout the study. In of prolonged exposure to high concentrations pronic irritation and lung damage, it is highly tumour formation will occur.		
Remai	rks	release haza Based on ar considered a chemicals ar Provided the and hygiene	e of aprotic polar solvents for cleaning can ardous primary aromatic amines (>0.1%) nimal studies, primary aromatic amines are as potential carcinogen to humans. Some of those re proven carcinogens to humans e recommended personal protective equipment measures are applied, no adverse effects to th are to be expected		
<u>Comp</u>	onents:				
4,4'-m	ethylenediphenyl di	isocyanate:			
Specie	25	: Rat, female			

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Application Route

Revision Date:

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SDS Number:

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: Inhalation

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		•				
Exposure time		:	24 month(s)			
Activity duratio	n	:	17 h			
Dose		:	0, 0.2, 0.7, 2.1 mg/m3 mg/m³			
Frequency of 7	Freatment	:	5 days/week			
NOEL		:	0.7 mg/m ³			
LOAEL		:	0.23 mg/m ³			
Result			positive			
Target Organs		:	Lungs			
rarget ergane		•				
	-methylenebis[i	so	cyanato-, homopolymer:			
Species		:	Rat, male and female			
Application Ro	ute	:	Inhalation			
Exposure time		:	24 month(s)			
Dose		:	1 mg/m³			
Frequency of 7	Freatment	:	5 daily			
Method		:	OECD Test Guideline 453			
Result		:	negative			
			5			
	ediphenyl diiso	су				
Species		:	Rat, male and female			
Application Ro	ute	:	Inhalation			
Exposure time		:	24 month(s)			
Dose		:	1 mg/m ³			
Frequency of 7	Freatment	:	5 daily			
Method		:	OECD Test Guideline 453			
Result		:	positive			
Target Organs		:	Lungs			
IARC			this product present at levels greater than or equal to 0.1% is able, possible or confirmed human carcinogen by IARC.			
OSHA			this product present at levels greater than or equal to 0.1% is regulated carcinogens.			
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.					
Reproductive	toxicity					
Components:						
4,4'-methylen	ediphenyl diiso	су	anate:			
Effects on foet			Test Type: Pre-natal			
development	ai	·	Species: Rat, female			
development			Application Route: Inhalation			
			Dose: 0/1/3/9 mg/m3			
			Duration of Single Treatment: 10 d Frequency of Treatment: 7 days/week			
			General Toxicity Maternal: LOAEL: 9 mg/m ³			
			Developmental Toxicity: NOAEC: 3 mg/m ³			
			Method: OECD Test Guideline 414			
Benzene, 1,1'-	-methylenebis[i	so	cyanato-, homopolymer:			



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	ts on foetal opment	Method: OECE				
-	oductive toxicity - ssment		No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.			
2,4'-n	nethylenediphenyl d	liisocyanate:				
Effec	ts on fertility	Result: Animal Species: Rat, r Application Ro Method: OECI	ute: Inhalation D Test Guideline 414 testing did not show any effects on fertility. male and female			
	ts on foetal opment	Application Ro General Toxici Method: OECI	male and female ute: Inhalation ty Maternal: NOAEL: 4 mg/m³ D Test Guideline 414 atogenic effects			
Effec	ryl phosphate: ts on foetal opment	Method: OECE	ute: Oral ty Maternal: NOAEL: 125 mg/kg body weight D Test Guideline 414 atogenic effects			

STOT - single exposure

Components:

4,4'-methylenediphenyl diisocyanate:

Benzene, 1,1'-methylenebis[isocyanato-, homopolymer:

Exposure routes	:	inhalation (dust/mist/fume)
Target Organs	:	Respiratory Tract
Assessment	:	May cause respiratory irritation.

2,4'-methylenediphenyl diisocyanate:

Exposure routes	:	Inhalation
Target Organs	:	Respiratory system
Assessment	:	The substance or mixture is classified as specific target organ





AFEI	Y DATA SHEET		HUNTSMAN			
RATH	HANE® 5753 A	L	Enriching lives through innovation			
ersion 0	Revision Date: 05/02/2022	SDS Number: 400001009994	Date of last issue: 08/26/2020 Date of first issue: 12/09/2015			
		toxicant, sir irritation.	Print Date 05/03/202 ngle exposure, category 3 with respiratory tract			
STO	Г - repeated exposu	re				
Com	ponents:					
4,4'-r	nethylenediphenyl (diisocyanate:				
Exposure routes Target Organs Assessment		: Respiratory : May cause exposure.,	 Inhalation Respiratory system May cause damage to organs through prolonged or repeated exposure., The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2. 			
Popo	ated dose toxicity					
-	ponents:					
	nethylenediphenyl o	diisocyanate:				
Species LOEC Application Route Test atmosphere Exposure time Number of exposures Dose Method Assessment		: 5 days/wee : 0, 0.2, 0.7, : Chronic tox : The substa	: 1 mg/m3 : Inhalation			
D.						
	ene, 1,1'-methylene	bis[isocyanato-, he : Rat, male a				
Species NOEC Test atmosphere		: 0.2 mg/m3	nu lemale			

NOEC Test atmosphere Exposure time Number of exposures Method	 0.2 mg/m3 dust/mist 2 yr 5 d OECD Test Guideline 453
Repeated dose toxicity - Assessment	 No adverse effect has been observed in chronic tests.

2,4'-methylenediphenyl diisocyanate:

Species NOEC Exposure time Number of exposures Method		Rat, male and female 0.2 mg/m3 2 yr 5 d OECD Test Guideline 453
Repeated dose toxicity - Assessment	:	Mild eye irritation
triethyl phosphate:		

toxicity

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Expos	cation Route sure time per of exposures od	: Ingestion : 4 Weeks : 7 d : Subacute toxicity	Print Date 0	05/03/2022
-	ation toxicity Ita available			
-	Experience with human exposure No data available			
	o logy, Metabolism, I Ita available	Distribution		
	ological effects Ita available			
	er information Ita available			
SECTION	12. ECOLOGICAL IN	FORMATION		

Ecotoxicity

Components:

4,4'-methylenediphenyl diisocyanate:

Toxicity to fish :	LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l End point: mortality Exposure time: 96 h Test substance: Fresh water Method: OECD Test Guideline 203
Toxicity to daphnia and other : aquatic invertebrates	EL50 (Daphnia magna (Water flea)): 9 mg/l End point: Immobilization Exposure time: 48 h Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 202
Toxicity to algae/aquatic : plants	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201 GLP: yes
Toxicity to daphnia and other : aquatic invertebrates (Chronic toxicity)	NOEC (Daphnia magna (Water flea)): >= 10 mg/l Exposure time: 21 d Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 211 Remarks: Information given is based on data obtained from similar substances.
Toxicity to microorganisms :	EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h



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				Test Type: static t Method: OECD T	
	Toxicity organis	/ to soil dwelling ms	:	NOEC (Eisenia fe Exposure time: 33	tida (earthworms)): >= 1,000 mg/kg 86 h
	Plant toxicity		:	Exposure time: 14 Species: Avena s	ativa (oats)
				EC50: >1000 milli Exposure time: 14 Species: Lactuca	
	Ecotox	cicology Assessment			
		aquatic toxicity	:	Toxic to aquatic li	e.
	Benzer	ne, 1,1'-methylenebis	[iso	cyanato-, homopo	olymer:
	Toxicity	<i>ı</i> to fish	:	LC50 (Brachydan Exposure time: 96 Test Type: static to Test substance: F Method: OECD To	est resh water
		/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24 Test Type: static t Test substance: F Method: OECD T	est resh water
	Toxicity plants	/ to algae/aquatic	:	EC50 (Desmodes mg/l Exposure time: 72 Test Type: static Test substance: F Method: OECD T	est resh water
	aquatic	/ to daphnia and other invertebrates ic toxicity)	:	NOEC (Daphnia r Exposure time: 2 ⁴ Test Type: semi-s Test substance: F Method: OECD T	tatic test resh water
	Toxicity	<i>i</i> to microorganisms	:	EC50 (activated s Exposure time: 3 Test Type: static Test substance: F Method: OECD T	est resh water
	Toxicity organis	∕ to soil dwelling ms	:	EC50 (Eisenia fet Exposure time: 33 Method: OECD T	

2,4'-methylenediphenyl diisocyanate:



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Toxi	Toxicity to fish		LC50 (Brachydan Exposure time: 96 Test Type: static t Test substance: F Method: OECD Te	est resh water
	Toxicity to daphnia and other aquatic invertebrates		EL50 (Daphnia m Exposure time: 48 Test Type: semi-s Test substance: F Method: OECD Te	tatic test resh water
aqua	Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)		NOEC (Daphnia r Exposure time: 21 Test Type: semi-s Test substance: F Method: OECD Te	tatic test resh water
Toxi	city to microorganisms	:	EC50 (activated s Exposure time: 3 Test Type: static t Test substance: F Method: OECD Te	est resh water
	city to soil dwelling nisms	:	NOEC (Eisenia fe Exposure time: 33 Method: OECD Te	
Eco	toxicology Assessment			
Acut	e aquatic toxicity	:	Toxic to aquatic lit	e.
	hyl phosphate: city to fish	:	LC50 (Pimephale Exposure time: 96 Test Type: static t Test substance: F	est
	city to daphnia and other atic invertebrates	:	LC50: > 100 mg/l Exposure time: 96 Test Type: static t Test substance: F	est
Toxi plan	city to algae/aquatic ts	:	EC50 (Desmodes Exposure time: 72 Test Type: static t Test substance: F	est
aqua	city to daphnia and other atic invertebrates ronic toxicity)	:	NOEC (Daphnia r Exposure time: 21 Test substance: F Method: OECD Te	resh water
Тохі	city to microorganisms	:	(Pseudomonas p Exposure time: 0. Test Type: static t	



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ARATH	IANE® 5753 A		
Version 3.0	Revision Date: 05/02/2022	SDS Number: 400001009994	Date of last issue: 08/26/2020 Date of first issue: 12/09/2015
		Test substance	Print Date 05/03/2022
		Test substance	
Persi	stence and degradab	bility	
Com	ponents:		
4,4'-n	nethylenediphenyl di	isocyanate:	
Biode	gradability	Result: Not rea Biodegradatior Exposure time:	: 28 d) Test Guideline 301F
Stabil	ity in water	: Degradation ha Remarks: Fres	alf life (DT50): 20 hrs (25 °C) h water
Benz	ene, 1,1'-methyleneb	is[isocyanato-, homo	opolymer:
Biode	gradability	: Inoculum: Dom Concentration: Result: Not bio Biodegradation Exposure time: Method: Inhere	30 mg/l degradable n: 0 %
2,4'-n	nethylenediphenyl di	isocyanate:	
	gradability	: Inoculum: Dom Concentration: Result: Not bio Biodegradation Exposure time:	30 mg/l degradable n: 0 %
trieth	yl phosphate:		
Biode	gradability	Biodegradation Exposure time: Method: OECD Inoculum: activ Result: Inheren Biodegradation Exposure time:	adily biodegradable. 1: 0 % 28 d 0 Test Guideline 301C vated sludge ntly biodegradable. 1: 98 %
Stabil	ity in water	: Degradation ha	alf life (DT50): 5.5 yr (25 °C) pH: 7



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rsion)	Revision Date: 05/02/2022	SDS Number: 400001009994	Date of last issue: 08/26/2020 Date of first issue: 12/09/2015
		Remarks: Fre	Print Date 05/03/202 esh water
Bioad	ccumulative potential		
Comp	oonents:		
4,4'-n	nethylenediphenyl diis	ocyanate:	
Bioac	cumulation	Bioconcentra Exposure tim Concentration Method: OEC	
	ion coefficient: n- ol/water	pH: 7	(72 °F / 22 °C) D Test Guideline 117
Benz	ene, 1,1'-methylenebis	[isocyanato-, hon	nopolymer:
Bioac	cumulation	Bioconcentra	rinus carpio (Carp) tion factor (BCF): 200 accumulation is unlikely.
	ion coefficient: n- ol/water	: log Pow: 8.56	66 °F / 20 °C)
2,4'-n	nethylenediphenyl diis	ocyanate:	
Bioac	cumulation	Bioconcentra	rinus carpio (Carp) tion factor (BCF): 200 accumulation is unlikely.
Partition coefficient: n- octanol/water		: log Pow: 4.51 pH: 7 Method: OEC	(68 °F / 20 °C) D Test Guideline 117
trieth	yl phosphate:		
Bioac	cumulation	Bioconcentra Exposure time	ce: Fresh water
	ion coefficient: n- ol/water	: log Pow: 1.11 Method: Parti	tion coefficient
Mobil	lity in soil		
Comp	oonents:		
4,4'-n	nethylenediphenyl diis	ocyanate:	
	oution among onmental compartments	: log Koc: 4.5 Method: QSA	R
Stabil	ity in soil	: Soil temperat	ure: 72 °F / 22 °C

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				Print Date 05/03/2022
			Dissipation time: Method: OECD T	24 h est Guideline 307
Othe	r adverse effects			
Prod	uct:			
Ozon	e-Depletion Potential	:	Protection of Stra Substances Remarks: This pr manufactured wit	 R Protection of Environment; Part 82 tospheric Ozone - CAA Section 602 Class I oduct neither contains, nor was h a Class I or Class II ODS as defined by the t Section 602 (40 CFR 82, Subpt. A, App.A +
	ional ecological nation	:	No data available	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	Do not dispose of waste into sev Do not contaminate ponds, wate chemical or used container. Send to a licensed waste manag	rways or ditches with
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.	

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as dangerous goods

IATA-DGR

Not regulated as dangerous goods

IMDG-Code

Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

National Regulations

49 CFR		
UN/ID/NA number	:	NA 3082
Proper shipping name	:	Other regulated substances, liquid, n.o.s. (Methylene Diphenyl Diisocyanate)
Class	:	9
Packing group	:	III
Labels	:	CLASS 9
ERG Code	:	171

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Marine	e pollutant	: no	Print Date 05/03/2022
Special precautions for a Remarks			angerous good in non-bulk packaging

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
4,4'-methylenediphenyl	101-68-8	5000	7575
diisocyanate			
SARA 311/312 Hazards	: Acute toxicity (any Respiratory or skin Skin corrosion or ir Serious eye damag Specific target orga	sensitisation ritation ge or eye irritation	r repeated exposure)
SARA 313	: The following comp established by SAF		
	4,4'-methylenediph diisocyanate	enyl 101-68-8	>= 50 - < 70 %

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

4,4'-methylenediphenyl 101-68-8 diisocyanate

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

DSL	: All components of this product are on the Canadian DSL
AIIC	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

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TCSI		: On the invento	Print Date 05/03/2022 ry, or in compliance with the inventory
TSCA	ι.	: All substances	listed as active on the TSCA inventory

Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

TSCA - 5(a) Significant New Use Rule List of Chemicals

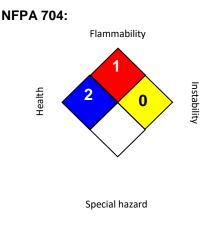
No substances are subject to a Significant New Use Rule.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION





HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard

Liquid decontaminants (percentages by weight or volume) :

Decontaminant 1 : *- sodium carbonate : 5 - 10 % *- liquid detergent : 0.2 - 2 % *- water : to make up to 100 %

Decontaminant 2 : *- concentrated ammonia solution : 3 - 8 % *- liquid detergent : 0.2 - 2 % *- water : to make up to 100 %

Decontaminant 1 reacts slower with diisocyanates but is more environmentally friendly than decontaminant 2.

Decontaminant 2 contains ammonia. Ammonia presents health hazards. (See supplier safety information.)

Revision Date	:	05/02/2022
ACGIH NIOSH REL OSHA P0	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)

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OSHA	A Z-1	: USA. Occupat Limits for Air C	ional Exposure Limits (OSHA) - Table Z-1 contaminants
ACGI	H/TWA	: 8-hour, time-w	eighted average
NIOSH REL / TWA			average concentration for up to a 10-hour g a 40-hour workweek
NIOSI	H REL / C	: Ceiling value r	ot be exceeded at any time.
		: Ceiling limit : Ceiling	
NIOSH REL / C OSHA P0 / C OSHA Z-1 / C		: Ceiling value r : Ceiling limit	

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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		•		
Version 2.0	Revision Date: 08/26/2020	SDS Number: 400001010201	Date of last issue: 12/16/2016 Date of first issue: 12/16/2016	
			Print Date 08/27/20)20
SECTIC	N 1. IDENTIFICATION			
Pro	oduct name	: ARATHANE®	9 5753 B(LV)	
Manufacturer or supplier's details				
	mpany name of supplier dress	: P.O. Box 498 The Woodlar TX 77387	-	
Tel	ephone	: Non-Emerger	ncy: (800) 257-5547	
	nail address of person ponsible for the SDS	: Global_Produ	uct_EHS_AdMat@huntsman.com	
Em	ergency telephone numbe	r : Chemtrec: (8	00) 424-9300 or (703) 527-3887	
Re	commended use of the c	hemical and restri	ictions on use	
Re	commended use	: Component u	used for the manufacture of electrical insulation	I

parts

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accort 1910.1200)	dance with the OSHA Hazard Communication Standard (29 CFR
Serious eye damage	: Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: H318 Causes serious eye damage.
Precautionary statements	: Prevention: P280 Wear eye protection/ face protection. Response: P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. Storage: Not available Disposal: Not available



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Other hazards None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name CA	-No. Concentration (% w/w	V)
1,1'-phenyliminodipropan-2-ol 307	7-13-2 5 - 10	

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically. Get medical attention if symptoms occur.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution.
In case of eye contact	:	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
Most important symptoms and effects, both acute and delayed	:	None known.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing If potential for exposure exists refer to Section 8 for specific personal protective equipment. No action shall be taken involving any personal risk or without suitable training.



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Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	Exercise caution when using a high volume water jet as it may scatter and spread fire
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	No hazardous combustion products are known
Specific extinguishing methods	:	No data is available on the product itself.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against	:	Normal measures for preventive fire protection.
fire and explosion		

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Advi	ice on safe handling	:	Smoking, eating a application area. To avoid spills du	
Con	ditions for safe storage	:	place.	ghtly closed in a dry and well-ventilated labelled containers.
Mate	erials to avoid	:	For incompatible SDS.	materials please refer to Section 10 of this
	ommended storage perature	:	64 - 104 °F / 18 -	40 °C
	her information on age stability	:	Stable under norr	nal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	: Maintain air concentrations below occupational exposure standards.					
Personal protective equipment						
Respiratory protection	: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines Recommended Filter type: Combined particulates and organic vapour type					
Filter type	: Filter type A-P					
Respiratory protection	: No personal respiratory protective equipment normally required.					
Hand protection Material Break through time	: butyl-rubber : >8 h					
Material Break through time	: Nitrile rubber : 10 - 480 min					
Material	: Solvent-resistant gloves (butyl-rubber)					
Remarks	: The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard					

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		indication of de Take note of th concerning pe special workpl contact). The suitability with the produ Chemical-resis approved stan chemical produ necessary. The suitability	Print Date 08/27/2020 d from it. be discarded and replaced if there is any egradation or chemical breakthrough. he information given by the producer rmeability and break through times, and of ace conditions (mechanical strain, duration of for a specific workplace should be discussed cers of the protective gloves. stant, impervious gloves complying with an dard should be worn at all times when handling ucts if a risk assessment indicates this is for a specific workplace should be discussed cers of the protective gloves.
Eye p	protection	Tightly fitting s	le with pure water afety goggles eld and protective suit for abnormal processing
Skin	and body protection		thing protection according to the amount and of the dangerous substance at the work place.
Hygie	ene measures	When using do	o not eat or drink. o not smoke. efore breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	amber
Odour	:	hydrocarbon-like
Odour Threshold	:	No data is available on the product itself.
рН	:	No data is available on the product itself.
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	450 °F / 232 °C Method: Pensky-Martens closed cup
Evaporation rate	:	< 1
Flammability (solid, gas)	:	No data is available on the product itself.
Flammability (liquids)	:	No data is available on the product itself.

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	er explosion limit / Upper mability limit	:	No data is availa	Print Date 08/27/2020 ble on the product itself.
	er explosion limit / Lower mability limit	:	No data is availa	ble on the product itself.
Vap	our pressure	:	< 1.333 hPa (68	°F / 20 °C)
Rela	ative vapour density	:	1	
Rela	ative density	:	1.05	
Den	sity	:	No data is availa	ble on the product itself.
	ibility(ies) /ater solubility	:	partly soluble	
S	olubility in other solvents	:	No data is availa	ble on the product itself.
	ition coefficient: n- nol/water	:	No data is availa	ble on the product itself.
	p-ignition temperature	:	No data is availa	ble on the product itself.
The	rmal decomposition	:	No data is availa	ble on the product itself.
	Accelerating omposition temperature DT)	:	No data is availa	ble on the product itself.
	osity iscosity, dynamic	:	8,500 mPa.s	
Expl	losive properties	:	No data is availa	ble on the product itself.
Oxic	lizing properties	:	No data is availa	ble on the product itself.
Mole	ecular weight	:	No data available	
Part	icle size	:	No data is availa	ble on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No hazards to be specially mentioned.
Conditions to avoid	:	None known.
Incompatible materials	:	None known.



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Haza produ	rdous decomposition	: No hazardous	Print Date 08/27/2020 decomposition products are known.
SECTION	11. TOXICOLOGICAL	INFORMATION	
Inforr expo	•	of : No data is ava	ilable on the product itself.
expo	•	of : No data is ava	ilable on the product itself.

1,1'-phenyliminodipropan-2-c Acute oral toxicityComponents	I: : LD50 (Rat): 3,800 mg/kg Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	: No data available
Components:	
1,1'-phenyliminodipropan-2-c Acute dermal toxicity	I: : LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
Acute toxicity (other routes of administration)	: No data available
Skin corrosion/irritation	
<u>Components:</u> 1,1'-phenyliminodipropan-2-c Result: Mild skin irritation	I:
Serious eye damage/eye irr	itation
<u>Components:</u> 1,1'-phenyliminodipropan-2-o Result: Risk of serious dama	
Respiratory or skin sensitis	sation
No data available	
Assessment:	No data available
Germ cell mutagenicity	
Genotoxicity in vitro	: No data available
Genotoxicity in vivo	: No data available
Germ cell mutagenicity- Assessment	: No data available

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	nogenicity ata available				
	nogenicity - ssment	: No data availa	ble		
IARC			this product present at levels greater than or dentified as probable, possible or confirmed n by IARC.		
ACG	IH	equal to 0.1% is i	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.		
OSH	A		this product present at levels greater than or on OSHA's list of regulated carcinogens.		
NTP			this product present at levels greater than or dentified as a known or anticipated carcinogen		
-	oductive toxicity is on fertility	: No data availa	ble		
	ts on foetal opment	: No data availa	ble		
	oductive toxicity - ssment	: No data availa	ble		
	- single exposure ata available				
	- repeated exposu ata available	ıre			
-	ated dose toxicity ata available				
	ated dose toxicity - ssment	: No data availa	ble		
-	ration toxicity ata available				
-	rience with human	-			
Gene	ral Information:	No data available			
		No data available			

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Skin o	contact:	No data available	
Eye c	ontact:	No data available	
Inges	tion:	No data available	
	cology, Metabolism, ata available	Distribution	
	ological effects ata available		
Furth Inges	er information tion:	No data available	

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Toxicity to fish	: No data available
Toxicity to daphnia and other aquatic invertebrates	: No data available
Toxicity to algae/aquatic plants	: No data available
M-Factor (Acute aquatic toxicity)	: No data available
Toxicity to fish (Chronic toxicity)	: No data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: No data available
M-Factor (Chronic aquatic toxicity)	: No data available
Toxicity to microorganisms	: No data available
Toxicity to soil dwelling organisms	: No data available
Plant toxicity	: No data available
Sediment toxicity	: No data available



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	Toxicity organis	r to terrestrial ms	:	No data available		
		cology Assessment quatic toxicity	:	No data available		
	Chronic	aquatic toxicity	:	No data available		
	Toxicity	Data on Soil	:	No data available		
		rganisms relevant to ironment	÷	No data available		
	Persist	ence and degradabil	ity			
	Biodeg	radability	:	No data available		
		nical Oxygen d (BOD)	:	No data available		
	Chemic (COD)	al Oxygen Demand	:	No data available		
	BOD/C	OD	:	No data available		
	ThOD		:	No data available		
	BOD/Th	nOD	:	No data available		
	Dissolv (DOC)	ed organic carbon	:	No data available		
	Physico remova	o-chemical bility	:	No data available		
	Stability	in water	:	No data available		
	Photod	egradation	:	No data available		
	Impact Treatm	on Sewage ent	:	No data available		
		umulative potential	:	No data available		
	Partition octanol	n coefficient: n- /water	:	No data available		
		y in soil				
	Mobility	,	:	No data available		
	Distribu	tion among	:	No data available		



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enviro	onmental compartmen	S	Print Date 08/27/2020
Stabil	lity in soil	: No data availa	ble
	r adverse effects onmental fate and vays	: No data availa	ble
	lts of PBT and vPvB ssment	: No data availa	ble
Endo poten	crine disrupting tial	: No data availa	ble
	rbed organic bound ens (AOX)	: No data availa	ble
Haza	rdous to the ozone la	yer	
	e-Depletion Potential	: Regulation: 40 Protection of S Substances Remarks: This manufactured	CFR Protection of Environment; Part 82 stratospheric Ozone - CAA Section 602 Class I product neither contains, nor was with a Class I or Class II ODS as defined by the Act Section 602 (40 CFR 82, Subpt. A, App.A +
	ional ecological nation	: No data availa	ble
Globa (GWF	al warming potential P)	: No data availa	ble

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal	methods
----------	---------

Waste from residues :	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of contents/ container to an approved waste disposal plant.
Contaminated packaging :	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION



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International Regulations

ΙΑΤΑ

Not regulated as dangerous goods

IMDG

Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

DOT Classification

Not regulated as dangerous goods

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
xylenes	1330-20-7	100	43956
buta-1,3-diene	106-99-0	10	*
methanol	67-56-1	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards	: Serious eye damage or eye irritation
----------------------	--

SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

WARNING: This product can expose you to chemicals including 4-vinylcyclohexene, buta-1,3diene, which is/are known to the State of California to cause cancer, and 4-vinylcyclohexene, buta-1,3-diene, methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory



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PICCS	8	: On the inventory	Print Date 08/27/2020 , or in compliance with the inventory	
IECSO	-	: On the inventory, or in compliance with the inventory		
TCSI	, ,	: On the inventory, or in compliance with the inventory		
TSCA		: On the inventory, or in compliance with the inventory		

Inventories

AICS (Australia), AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

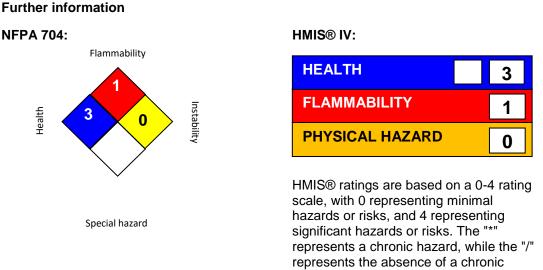
TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION



The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

hazard

Sources of key data used to compile the Safety Data	:	Information taken from reference works and the literature., Information derived from practical experience.
Sheet Revision Date	:	08/26/2020



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THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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