

1-800-375-0605 Option 8 for 24/7 Service



SAFETY DATA SHEET

ARALDITE® 2080-15 A

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Version	Revision Date:	SDS Number:	Date of last issue: -
0.0	01/11/2022	400000010906	Date of first issue: 01/11/2022
SECTION	1. IDENTIFICATION		Print Date 01/11/2022

ECTION 1. IDENTIFICATION

Product name	ARALDITE® 2080-15 A						
Manufacturer or supplier's details							
Company name of supplier Address	Huntsman Advanced Materials Americ P.O. Box 4980 The Woodlands, TX 77387 United States of America (USA)	as LLC					
Telephone	Non-Emergency: (800) 257-5547						
E-mail address of person responsible for the SDS	Global_Product_EHS_AdMat@huntsm	nan.com					
Emergency telephone number	Chemtrec: (800) 424-9300 or (703) 52	7-3887					
Recommended use of the ch	ical and restrictions on use						

: Resin

SECTION 2. HAZARDS IDENTIFICATION

Recommended use

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) ~

Flammable liquids	:	Category 4
Skin irritation	:	Category 2
Serious eye damage	:	Category 1
Skin sensitisation	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)
Short-term (acute) aquatic hazard	:	Category 2
Chronic aquatic toxicity	:	Category 3
GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H227 Combustible liquid.

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ersion .0	Revision Date: 01/11/2022	SDS Number: 400000010906	Date of last issue: - Date of first issue: 01/11/2022
		H318 Causes s H335 May caus H401 Toxic to a	se an allergic skin reaction. serious eye damage. se respiratory irritation.
Preca	autionary statements	No smoking. P261 Avoid bre P264 Wash ski P271 Use only P272 Contamir the workplace. P273 Avoid rele P280 Wear pro Response: P302 + P352 IF P304 + P340 + and keep comf doctor if you fe P305 + P351 + water for sever and easy to do CENTER/ doct P303 + P351 st attention. P362 Take off P370 + P378 Ir alcohol-resistat Storage: P403 + P233 St tightly closed. P403 + P235 S P405 Store loc Disposal: P501 Dispose of	 P338 + P310 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON or. skin irritation or rash occurs: Get medical advice contaminated clothing and wash before reuse. case of fire: Use dry sand, dry chemical or nt foam to extinguish. Store in a well-ventilated place. Keep container Store in a well-ventilated place. Keep cool.
	r hazards		
None	known.		

Substance / Mixture

: Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	20 - 30
2-hydroxyethyl methacrylate	868-77-9	10 - 20







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Vers 0.0	sion	Revision Date: 01/11/2022	SDS Number 40000001090	-	Date of last issue: Date of first issue:	
	methac 1,2-dio	crylic acid, monoeste l	r with propane-	27813-0	02-1	Print Date 01/11/2022 10 - 20
	polyme (isocya trimeth	enoic acid, 2-hydroxy r with 5-isocyanato- natomethyl)-1,3,3- ylcyclohexane, 2-oxe ybis[ethanol]	-	72162-3	39-1	5 - 10
	methac	crylic acid		79-41-4		3 - 5
	titaniun	n dioxide		13463-6	67-7	1 - 5
	2,2'-[(4	-methylphenyl)imino	bisethanol	3077-12	2-1	0.1 - 1
	2,6-di-t	ert-butyl-p-cresol		128-37-	0	0.1 - 1
		(2,4-di-tert-butylpher a-3,9-diphosphaspiro		26741-5	53-7	0.1 - 1

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	 If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
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	: None known.

delayed





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	ction of first-aiders to physician	and use the rec If potential for e personal protec Avoid inhalation No action shall suitable training	erous to the person providing aid to give necessary in resuscitation.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media Specific hazards during	:	Exercise caution when using a high volume water jet as it may scatter and spread fire Do not allow run-off from fire fighting to enter drains or water
firefighting	•	courses.
Hazardous combustion products	:	Carbon oxides Metal oxides
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. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
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	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.





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SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
Advice on safe handling	 Use only with adequate ventilation/personal protection. Provide sufficient air exchange and/or exhaust in work rooms. For personal protection see section 8. Keep container closed when not in use. Avoid formation of aerosol. Do not breathe vapours or spray mist. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
J	 No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Keep in properly labelled containers. For incompatible materials please refer to Section 10 of this
	SDS.
Recommended storage temperature	36 - 46 °F / 2 - 8 °C
Further information on storage stability	Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
methacrylic acid	79-41-4	TWA	20 ppm	ACGIH
		TWA	20 ppm 70 mg/m3	NIOSH REL
		TWA	20 ppm 70 mg/m3	OSHA P0
titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH







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			TWA (Total dust)	10 mg/m3	OSHA P0		
2,6-di	i-tert-butyl-p-cresol	128-37-0	TWA (Inhalable fraction and vapor)	2 mg/m3	ACGIH		
			TŴA	10 mg/m3	NIOSH R		
			TWA	10 mg/m3	OSHA P0		
Perso	onal protective equip	ment					
Resp	iratory protection	Suitable re Respirator Recomme Combined Respirator exposure I	selection must be	ent: hask organic vapour type based on known o s of the product and	or anticipated		
Filter	type		A-P2 (organic vap				
	protection			,			
Mate		: butyl-rubb					
Mate			 Ethyl Vinyl Alcohol Laminate (EVAL) > 8 h Nitrile rubber 10 - 480 min 				
	k through time	-					
Mate							
Brea	k through time	: 10 - 480 fi	110				
Rema	arks	approved s chemical p necessary The suitab with the pr Take note concerning	standard should b products if a risk as ility for a specific v oducers of the pro of the information p permeability and	bus gloves complyin e worn at all times ssessment indicate workplace should b otective gloves. given by the produ- break through time s (mechanical strain	when handling is this is le discussed licer es, and of		
Eye p	protection	: Eye wash Tightly fitti	bottle with pure w ng safety goggles -shield and protec	ater tive suit for abnorn	nal processing		
Skin a	and body protection		dy protection acc	ording to the amou ous substance at th			
Hygie	ene measures	: When usin When usin	g do not eat or dri g do not smoke.		·		

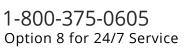
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colour Odour Odour Threshold	:	paste white slight No data is available on the product itself.
рН	:	No data is available on the product itself.











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Melti	Melting point/freezing point		Print Date 01/11/2022 : No data is available on the product itself.				
	Boiling point Flash point		 No data is available on the product itself. 205.7 °F / 96.5 °C (1,013 hPa) Method: ISO 2719, closed cup 				
Evap	oration rate	:	No data is av	ailable on the product itself.			
Flam	mability (solid, gas)	:	No data is av	ailable on the product itself.			
Flam	mability (liquids)	:	No data is av	ailable on the product itself.			
	er explosion limit / Upper nability limit	:	No data is av	ailable on the product itself.			
	er explosion limit / Lower nability limit	:	No data is av	ailable on the product itself.			
Vapo	our pressure	:	No data is av	ailable on the product itself.			
Relat	Relative vapour density		: No data is available on the product itself.				
Relat	Relative density		No data is av	ailable on the product itself.			
Dens	Density		1.03 g/cm3 (7 Method: estin				
	bility(ies) ater solubility	:	insoluble, imr	niscible			
So	lubility in other solvents	:	No data is av	ailable on the product itself.			
	tion coefficient: n- nol/water	:	No data is av	ailable on the product itself.			
	ignition temperature	:	No data is av	ailable on the product itself.			
Deco	mposition temperature	:	No data is av	ailable on the product itself.			
	,	:	No data is av	ailable on the product itself.			
	scosity, dynamic	:	20,000 - 45,0	00 mPa.s (77 °F / 25 °C)			
Explo	osive properties	:	No data is av	ailable on the product itself.			
Oxidi	zing properties	:	No data is av	ailable on the product itself.			
Partio	cle size	:	No data is av	ailable on the product itself.			

SECTION 10. STABILITY AND REACTIVITY

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Reactivity

: No dangerous reaction known under conditions of normal use.



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Poss	mical stability sibility of hazardous tions		ormal conditions. orm explosive mixture with air.			
	ditions to avoid	: Heat, flames a	nd sparks.			
	mpatible materials	: None known.				
Haza prod	ardous decomposition ucts	: carbon dioxide carbon monoxi				

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity		
<u>Product:</u> Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 200 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Components:		
exo-1,7,7-trimethylbicyclo[2	.2.1	I]hept-2-yl methacrylate:
Acute oral toxicity	:	LD50 (Rat, male and female): 3,160 mg/kg Method: No information available. GLP: no Assessment: The component/mixture is low toxic after single ingestion.
2-hydroxyethyl methacrylat	e:	
Acute oral toxicity	:	LD50 (Rat): 5,564 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg
methacrylic acid, monoeste	r w	ith propane-1,2-diol:
Acute oral toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 401 GLP: yes Assessment: The substance or mixture has no acute oral toxicity
Acute dermal toxicity	:	LD50 (Rabbit, male): > 5,000 mg/kg
methacrylic acid:		
Acute oral toxicity	:	LD50 (Rat, male): 1,320 mg/kg Method: OECD Test Guideline 401 GLP: no Assessment: The component/mixture is moderately toxic after single ingestion.



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Acute inhalation toxicity		Exposure time Test atmosph Method: OEC GLP: yes	ere: vapour D Test Guideline 403 The component/mixture is moderately toxic after
Acute dermal toxicity		GLP: no	: 500 - 1,000 mg/kg The component/mixture is toxic after single kin.
titani	ium dioxide:		
Acute	e oral toxicity	Method: OEC	male): > 5,000 mg/kg D Test Guideline 425 The substance or mixture has no acute oral
Acute inhalation toxicity		Exposure time Test atmosph Method: OEC	ere: dust/mist D Test Guideline 403 The substance or mixture has no acute
Acute	e dermal toxicity	: LD50 Dermal	(Rabbit): > 10,000 mg/kg
2,2'-[(4-methylphenyl)imir	o]bisethanol:	
	e oral toxicity	: LD50 (Rat, ma Method: OEC GLP: no	ale and female): 959 mg/kg D Test Guideline 401 The component/mixture is moderately toxic after on.
Acute dermal toxicity		Method: OEC GLP: yes	ale and female): > 2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal
2,6-d	i-tert-butyl-p-cresol:		
Acute	e oral toxicity	Method: OEC	ale and female): > 6,000 mg/kg D Test Guideline 401 The substance or mixture has no acute oral
Acute dermal toxicity		Method: OEC	ale and female): > 2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal



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	3,9-bi	s(2,4-di-tert-butylph	enoxy)-2	2,4,8,10-tetr	aoxa-3,9-diphosphaspi	Print Date 01/11/2022 ro[5.5]undecane:
		oral toxicity	: L	D50 (Rat): >	5,000 mg/kg D Test Guideline 401	
	Acute inhalation toxicity Acute dermal toxicity		E T N A	xposure time est atmosph lethod: OEC	ere: dust/mist D Test Guideline 403 The substance or mixtur	
			: L N A to	e has no acute dermal		
	Skin o	corrosion/irritation				
	Comp	oonents:				
	exo-1	,7,7-trimethylbicyclo	[2.2.1]h	ept-2-yl me	thacrylate:	
	Specie Metho Resul GLP	od	: C : N	abbit ECD Test G lild skin irrita es	Guideline 404 Ition	
	2-hyd	roxyethyl methacryl	ate:			
	Speci Resul			abbit kin irritation		
	metha	acrylic acid, monoes	ter with	propane-1,	2-diol:	
	Speci	es		abbit		
	Asses	sment	: N	lo skin irritat	on	
	2-Propenoic acid, 2-hydroxy trimethylcyclohexane, 2-oxe Result		epanone			cyanatomethyl)-1,3,3-
	Speci	esment od	: C : C : E		re burns. Guideline 404 rrosive and destructive to	o tissue.
	titaniı	um dioxide:				
	Speci	es ssment od	: N : C		on Guideline 404 ersible injuries	
	2,2'-[(4-methylphenyl)imir	no]bisetl	nanol:		
ret ret		UDOLPH ROS. Е СО	C	1-800	-375-0605 8 for 24/7 Service	www.rudolphk rbcsupport@r



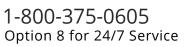
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RALD	ITE® 2080-15	A	
ersion 0	Revision Date: 01/11/2022	SDS Number: 400000010906	Date of last issue: - Date of first issue: 01/11/2022
Speci Asses Metho Resul GLP	ssment od	: Rabbit : No skin irritation : Other guidelines : No skin irritation : no	Print Date 01/11/202
2,6-di	-tert-butyl-p-cresol:		
Speci Asses Metho Resul	ssment od	: Rabbit : No skin irritation : OECD Test Guide : No skin irritation	eline 404
3,9-bi	s(2,4-di-tert-butylph	enoxy)-2,4,8,10-tetraox	a-3,9-diphosphaspiro[5.5]undecane:
Speci Asses Metho Resul	esment od	: Rabbit : No skin irritation : OECD Test Guid : No skin irritation	eline 404
Serio	us eye damage/eye	rritation	
	oonents:		
exo-1	,7,7-trimethylbicyclo	[2.2.1]hept-2-yl methad	crylate:
Speci Resul Metho	t	: Rabbit : No eye irritation : Draize Test	
2-hyd	roxyethyl methacry	ate:	
Speci Resul		: Rabbit : Irritation to eyes,	reversing within 7 days
metha	acrylic acid, monoes	ter with propane-1,2-di	iol:
Speci Resul		: Rabbit : Eye irritation	
		yethyl ester, polymer witl epanone and 2,2'-oxybis	h 5-isocyanato-1-(isocyanatomethyl)-1,3,3- [ethanol] :
Resul	t	: Eye irritation	
metha	acrylic acid:		
Speci Resul	es t ssment	: Rabbit : Irreversible effect : Risk of serious da : Draize Test : no	
titani	um dioxide:		
Speci Resul	es t ssment	: Rabbit : Normally reversib : No eye irritation : OECD Test Guide	-









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2,2'-[(4-methylphenyl)imino]bisethanol:

Species	:	Rabbit
Result	:	Risk of serious damage to eyes.
Assessment	:	Risk of serious damage to eyes.
Method	:	OECD Test Guideline 405
GLP	:	no

2,6-di-tert-butyl-p-cresol:

Species	:	Rabbit
Result	:	No eye irritation
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405

3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane:

Species	:	Rabbit
Result	:	No eye irritation
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405

Respiratory or skin sensitisation

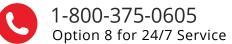
Components:

exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate:

	2. Illept-2-yr methaci ylate.
Test Type Exposure routes Species Method Result GLP	 Maximisation Test Dermal Guinea pig OECD Test Guideline 406 Does not cause skin sensitisation. yes
Assessment	: Mild skin irritation
2-hydroxyethyl methacrylate	
Test Type Species Result	 Buehler Test Guinea pig Did not cause sensitisation on laboratory animals.
Species Result	HumansProbability or evidence of skin sensitisation in humans
methacrylic acid, monoester	with propane-1,2-diol:
Exposure routes	: Skin : Humans
Species Result	: May cause sensitisation by skin contact.
methacrylic acid:	
Test Type	: Buehler Test
Exposure routes	: Skin
Species Assessment	 Guinea pig Did not cause sensitisation on laboratory animals.
Method	: OECD Test Guideline 406









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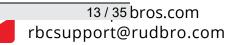
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rsion	Revision Date: 01/11/2022	SDS Number: 400000010906	Date of last issue: - Date of first issue: 01/11/2022
Resu	t	: Did not cause s	Print Date 01/11/202 sensitisation on laboratory animals.
titani	um dioxide:		
Test ⁻	Гуре	: Local lymph no	de assay (LLNA)
	sure routes	: Skin	5 ()
Speci		: Mouse	
Asses	ssment	: Does not cause	e skin sensitisation.
Metho	bd	: OECD Test Gu	ideline 429
Resu	t	: Does not cause	e skin sensitisation.
	sure routes	: Skin	
Speci		: Guinea pig	
	ssment		e skin sensitisation.
Metho		: OECD Test Gu	
Resu	t	: Does not cause	e skin sensitisation.
Asses	ssment		n, No eye irritation
		sensitisation.	e skin sensitisation., Does not cause respiratory
2,2'-[((4-methylphenyl)imir	no]bisethanol:	
Test ⁻	Гуре	: Local lymph no	de assay (LLNA)
Speci	es	: Mouse	
Asses	ssment	: May cause sen	sitisation by skin contact.
Metho	bd	: OECD Test Gu	ideline 429
Resu	t	: May cause sen	sitisation by skin contact.
GLP		: yes	
Rema	irks	: Information giv substances.	en is based on data obtained from similar
2,6-d i	-tert-butyl-p-cresol:		
Expos	sure routes	: Skin	
Speci		: Humans	
Resu	t	: Does not cause	e skin sensitisation.
3,9-bi	is(2,4-di-tert-butylph	enoxy)-2,4,8,10-tetra	oxa-3,9-diphosphaspiro[5.5]undecane:
	sure routes	: Skin	
Speci		: Guinea pig	
Metho		: OECD Test Gu	ideline 406
Resu	t	: Does not cause	e skin sensitisation.
Germ	cell mutagenicity		
Com	oonents:		
		o[2.2.1]hept-2-yl meth	-
Geno	toxicity in vitro		itro mammalian cell gene mutation test
			hinese hamster fibroblasts
			ation: with and without metabolic activation
			Test Guideline 476
		Result: negativ	e

Test Type: Chromosome aberration test in vitro



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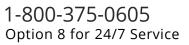




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Version).0	Revision Date: 01/11/2022		lumber: 0010906	Date of last issue: - Date of first issue: 01/11/2022
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		Me Me Re	etabolic activa	uman lymphocytes ation: with and without metabolic activation Test Guideline 473 e
		Te Me Me	etabolic activation	almonella typhimurium ation: with and without metabolic activation Test Guideline 471
2-hvd	roxyethyl methacryl	ate:		
-	oxicity in vitro	: Te Te Me		almonella typhimurium ation: with and without metabolic activation
		Te Me	st system: C	tro mammalian cell gene mutation test ninese hamster ovary cells ation: with and without metabolic activation e
		Te	st system: C	omosome aberration test in vitro ninese hamster lung cells ation: with and without metabolic activation
Genot	oxicity in vivo	Sp Ap Me	ecies: Rat plication Rou	Test Guideline 474
		Sp		pmosome aberration test in vitro phila melanogaster (vinegar fly) e
metha	acrylic acid, monoes	ter with _l	propane-1,2-	diol:
Genot	oxicity in vitro	Me		ation: with and without metabolic activation Test Guideline 471 e
		Me		ation: with and without metabolic activation Test Guideline 476 e
			etabolic active sult: positive	ation: with and without metabolic activation
Genot	oxicity in vivo	: Re	sult: negative	9
		Do	posure time: se: 500 - 200 ethod: OECD	









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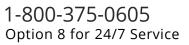
ARALD	ITE® 2080-15	Α	
Version 0.0	Revision Date: 01/11/2022	SDS Number: 400000010906	Date of last issue: - Date of first issue: 01/11/2022
		Result: negative	Print Date 01/11/2
		Dose: 2000 mg	/kg Test Guideline 474
metha	acrylic acid:		
	toxicity in vitro	Test system: Sa Metabolic activa	rse mutation assay almonella typhimurium ation: with and without metabolic activation Test Guideline 471
Genot	toxicity in vivo		nale) itic te: Inhalation 2 h
			e (male) te: Inhalation 6 h 05 and 36.45 mg/L Test Guideline 478
titaniu	um dioxide:		
Genot	toxicity in vitro	Metabolic activa	100 - 200 ug/plate ation: with and without metabolic activation Test Guideline 471
		Concentration: Metabolic active	ation: with and without metabolic activation Test Guideline 476
		Concentration: Metabolic active	ation: with and without metabolic activation Test Guideline 473
Genot	toxicity in vivo	: Test Type: Micr Species: Mouse Application Rou Exposure time:	e (males)
R B	UDOLPH ROS. ဥ CO		375-0605 for 24/7 Service rbcsuppo

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ersion .0	Revision Date: 01/11/2022	SDS Number: 400000010906	Date of last issue: - Date of first issue: 01/11/2022
.0	01711/2022	Dose: 0.8, 7.2, Method: OECD	Print Date 01/11/2022 and 28.5 mg/m³) Test Guideline 474
		Application Ro Exposure time: Dose: 500, 100	ronucleus test nale and female) ute: Oral once)0, and 2000 mg/kg bw) Test Guideline 474
	cell mutagenicity - ssment		rial or mammalian cell cultures did not show cts., Animal testing did not show any mutagenic
2,2'-[((4-methylphenyl)imi	no]bisethanol:	
Geno	toxicity in vitro	Test system: S Metabolic activ	erse mutation assay almonella typhimurium ation: with and without metabolic activation) Test Guideline 471 e
		Test system: H Metabolic activ Method: OECD Result: negativ GLP: yes	mation given is based on data obtained from
		Test system: m Metabolic activ Method: OECD Result: negativ GLP: yes	mation given is based on data obtained from
2,6-di	i-tert-butyl-p-cresol:		
Geno	toxicity in vitro		erse mutation assay ation: with and without metabolic activation e
			omosome aberration test in vitro ation: with and without metabolic activation e
Geno	toxicity in vivo	: Application Ro Dose: 75 mg/k Result: negativ	







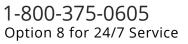




AKALU	DITE® 2080-15	4	
Version).0	Revision Date: 01/11/2022		Date of last issue: - Date of first issue: 01/11/2022
		Application Route: Exposure time: 9 M Dose: ca 750 mg/k Result: negative	onths
	is(2,4-di-tert-butylph toxicity in vitro	enoxy)-2,4,8,10-tetraoxa : Method: OECD Tes Result: negative	3,9-diphosphaspiro[5.5]undecane: at Guideline 471
		Method: OECD Tes Result: negative	st Guideline 476
		Method: OECD Tes Result: negative	st Guideline 473
Geno	toxicity in vivo	: Application Route: Exposure time: 48 Dose: 2000 mg/kg Method: OECD Tes Result: negative	
Carci	nogenicity		
Com	ponents:		
2-hyd	Iroxyethyl methacryl	ate:	
Expos	cation Route sure time lency of Treatment od It	 Mouse inhalation (vapour) 102 weeks 5 days/week OECD Test Guidel negative Information given is substances. 	ne 451 s based on data obtained from similar
	cation Route sure time It		based on data obtained from similar
metha	acrylic acid, monoes	substances. ter with propane-1,2-dio	:
	cation Route sure time od	 Rat, male and fema Inhalation 24 month(s) 250 - 1000 ppm OECD Test Guidel negative 	
Expos Dose	cation Route sure time	: Rat, male and fema : Oral : 104 weeks : 6 - 2000 ppm : 7 daily	ile









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ersion Revisi .0 01/11/	on Date: 2022	SDS Numbe 4000000109		
				Print Date 01/11/2022
Result		: negative	:	
methacrylic a	cid:			
Species		· Rat mal	e and female	
Application Ro	ute		n (vapour)	
Exposure time		: 102 wee		
Frequency of 1		: 5 days/v		
NOÁEL			mg/kg body weight	
Method			est Guideline 451	
Species		: Mouse,	male and female	
Application Ro	ute		n (vapour)	
Exposure time		: 102 wee	ks	
Dose		: ca. 2.05	and 4.1 mg/L	
Frequency of T	Freatment	: 5 days/v		
LOAEL		: ca. 2.05		
Method		: OECD T	est Guideline 451	
titanium dioxi	de:			
Species		: Rat, mal	e and female	
Application Ro	ute	: Oral		
Exposure time		: 103 wee	ks	
Dose		: 0, 25000), 50000 ppm	
Frequency of 1	Freatment	: 7 days/v	veek	
NOAEL		: > 50.000		
Method		: No infor	mation available.	
Remarks		: Titanium	Dioxide: based on the re	esults of chronic inhalation
		studies	(with positive results only	in a single species - rat),
		IARC ha	s concluded that: "There	is inadequate evidence in
		humans	for the carcinogenicity of the	titanium dioxide. " but that :
		"There is	s sufficient evidence in exp	perimental animals for
		carcinog	enicity of titanium dioxide	". IARCs overall evaluation
				bly carcinogenic to humans
		(Group 2	2B)."	
			an has examined all of the	
				lata together with workplace
				oxide and concludes that the
			f scientific evidence indica	
				oxide exposure and cancer
				e exposures in compliance
			licable exposure standard	
		cancer o	or chronic respiratory disea	ases in numans.
Carcinogenicit	y -	: Not clas	sifiable as a human carcin	logen.
Assessment				
2,6-di-tert-but	yl-p-cresol:	· Dot mo	a and famale	
Species Application Ro	uto	: Rat, mai	e and female	
Result		: negative)	
IARC	Group 2B: Pa	ossibly carcine	ogenic to humans	





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Version 0.0	Revision Date: 01/11/2022	SDS Number: 400000010906	Date of last issue: - Date of first issue: 01/11/2022
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OSHA		ent of this product pre list of regulated carcir	sent at levels greater than or equal to 0.1% is nogens.
NTP			sent at levels greater than or equal to 0.1% is ed carcinogen by NTP.
-	ductive toxicity onents:		
		[2.2.1]hept-2-yl meth	acrvlate:
Effects	on fertility	Application Rou Dose: 0 , 25, 10 Frequency of T General Toxicit General Toxicit	
Effects develop	on foetal pment	Application Ro Dose: 0, 25, 10 Frequency of T Developmental	
2-hydr	oxyethyl methacryla	ate:	
-	on fertility	: Species: Rat Application Rou General Toxicit General Toxicit Fertility: NOAE Early Embryon weight Method: OECD Result: No effe development w	y - Parent: NOAEL: 50 mg/kg body weight y F1: NOAEL: 50 mg/kg body weight L: 400 mg/kg body weight ic Development: NOAEL: 400 mg/kg body Test Guideline 416 cts on fertility and early embryonic vere detected. mation given is based on data obtained from
		General Toxicit	ute: Oral y - Parent: NOAEL: 1,000 mg/kg body weight y F1: NOAEL: 1,000 mg/kg body weight) Test Guideline 422
Effects develop	on foetal pment	Teratogenicity: Embryo-foetal Method: OECD	ute: Inhalation y Maternal: LOEL: 0.41 g/m3 NOAEC F1: 8.3 toxicity: NOAEC F1: 8.3 9 Test Guideline 414 mation given is based on data obtained from
R	UDOLPH ROS. E. CO		375-0605 for 24/7 Service www.rudolpl



			Enriching lives through innovation
ARALDI Version 0.0	TE® 2080-15 A Revision Date: 01/11/2022	SDS Number: 400000010906	Date of last issue: - Date of first issue: 01/11/2022
		similar substa	Print Date 01/11/202: nces.
		Species: Rabl Application Re General Toxic Developmenta Method: OEC	oit oute: Oral ity Maternal: NOAEL: 50 mg/kg body weight al Toxicity: NOAEL: 450 mg/kg body weight D Test Guideline 414 rrmation given is based on data obtained from
metha	crylic acid, monoest	er with propane-1.	2-diol:
	on fertility	: Species: Rat, Application Ro	male and female
Effects develo	on foetal pment	Method: OEC	
metha	crylic acid:		
Effects	on fertility	Species: Rat, Application Ro Dose: 0, 50, 1 General Toxic Fertility: NOA Symptoms: Ro	vo-generation study male and female oute: Oral 50, 450 mg/kg/day sity - Parent: NOAEL: 50 mg/kg body weight EL F1: 400 mg/kg body weight educed body weight D Test Guideline 416
Effects develo	on foetal pment	Dose: 0, 50, 1 Duration of Si Frequency of General Toxic Developmenta Embryo-foeta Method: OEC Result: No eff	
		Application Re Dose: 50, 150 Duration of Si Frequency of General Toxic Developmenta Result: No eff	pit, male and female
	UDOLPH ROS. & CO		-375-0605 8 for 24/7 Service www.rudolph rbcsupport@

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AR	ALDI	IE® 2080-15 A		
Vers 0.0	sion	Revision Date: 01/11/2022	SDS Number: 400000010906	Date of last issue: - Date of first issue: 01/11/2022
				Print Date 01/11/2022
titanium dioxide: Effects on foetal development			Duration of Sing Frequency of Tre General Toxicity Developmental	te: Oral and 1000 mg/kg bw/ le Treatment: 20 d eatment: 7 days/week Maternal: NOAEL: 1,000 mg/kg body weight Toxicity: NOAEL: 1,000 mg/kg body weight Test Guideline 414
	Reproc Assess	luctive toxicity - sment		adverse effects on sexual function and fertility, ent, based on animal experiments.
	2.2'-[(4	-methylphenyl)imino	lbisethanol:	
		on foetal	: Test Type: Pre-r Species: Rat, fer Application Rout Dose: 60/200/60 Duration of Sing General Toxicity Developmental Method: OECD	males te: Oral 00 milligram per kilogram le Treatment: 15 d Maternal: NOAEL: 200 mg/kg body weight Toxicity: NOAEL: >= 600 mg/kg body weight Test Guideline 414 nation given is based on data obtained from
		tert-butyl-p-cresol: on fertility	Species: Rat, ma Application Rout Dose: 25/100/50 General Toxicity	te: Oral 00 mg/kg bw/day - Parent: NOAEL: 100 mg/kg body weight - F1: NOAEL: 25 mg/kg body weight
	Effects develo	on foetal pment	General Toxicity	, female ie: Oral le Treatment: 7 d Maternal: NOAEL: 240 mg/kg body weight Foxicity: NOAEL: 800 mg/kg body weight
	3.9-bis	(2.4-di-tert-butvloher	loxy)-2,4.8.10-tetrao	xa-3,9-diphosphaspiro[5.5]undecane:
		on fertility	: Species: Rat, ma Application Rout	ale and female te: Oral Test Guideline 415
	Effects develo	on foetal pment	: Species: Rabbit Application Rout	e: Oral
~	D			









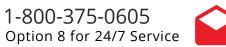
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sion	Revision Date: 01/11/2022	SDS Number: 400000010906	Date of last issue: - Date of first issue: 01/11/2022
		General Toxicit Method: OECD Result: No tera	Print Date 01/11/2022 y Maternal: NOAEL: 200 mg/kg body weight Test Guideline 414 togenic effects
STOT	- single exposure		
Com	oonents:		
	acrylic acid:		
	sure routes	: Inhalation	
	et Organs	: Respiratory Tra	act
	ssment	: The substance	or mixture is classified as specific target organ exposure, category 3 with respiratory tract
STOT	- repeated exposur	e	
	ata available	-	
Repe	ated dose toxicity		
•	oonents:		
<u> </u>		o[2.2.1]hept-2-yl meth	acrylate:
Speci		: Rat, male and t	-
NOAE		: 25 mg/kg	
Applic	cation Route	: oral (gavage)	
	per of exposures	: 7 days a week	
Dose		: 0, 25, 100, 500	
Metho GLP	bd	: Subchronic tox	icity
-	et Organs	: yes : Kidney, Liver	
Dono	atad daga tayiaity	: Mild skin irritati	
	ated dose toxicity - ssment	. WING SKITTITITAU	
2-hyd	Iroxyethyl methacry	late:	
Speci	es	: Rat	
NOAE		: 100 mg/kg	
	cation Route	: Oral	
Metho	DC	: OECD Test Gu	Ideline 422
Speci		: Rat	
NOAE		: 0.5 mg/l	
	cation Route	: Inhalation	
Expos	sure time	: 21 d	
meth	acrylic acid, monoes	ster with propane-1,2-	-diol:
Speci		: Rat, male and	emale
NOAE		: 300 mg/kg	
	cation Route	: Ingestion	
	sure time	: 1,176 h : 7 d	
Dose	per of exposures		, 1000 mg/kg bw
Metho	bd	: 0, 30, 100, 300 : 0ECD Test Gu	





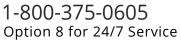


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Version 0.0	Revision Date: 01/11/2022	SDS Number: 400000010906	Date of last issue: - Date of first issue: 01/11/2022
			Print Date 01/11/2022
	acrylic acid:	· Dat male and f	amala
Speci NOE(: Rat, male and fe : 352 - 1232 mg/r	
	cation Route	: inhalation (vapo	
	atmosphere	: vapour	
	sure time	: 90 d	
	per of exposures	: 6 h	
Dose		: 70/352/1232 mg	g/m3
	equent observation	: 5 days/week	
perioo Metho		: OECD Test Gui	deline 113
GLP		: yes	
titani	um dioxide:		
Speci	es	: Rat, male and fe	emale
NOE		: 3500 mg/m3	
	cation Route	: Ingestion	
	atmosphere	: dust/mist	
	sure time	: 2 yr : 5 d	
Metho	per of exposures	: Chronic toxicity	
Weak		. Onionic toxicity	
Speci		: Rat, male and fe	emale
NOE		: 10 - 50 mg/m3	
	cation Route	: Inhalation	
	sure time per of exposures	: 2 yr : 6 hours/day, 5 c	lavs/wook
Metho		: Chronic toxicity	
•	ated dose toxicity -		n, No eye irritation
	ssment		ct has been observed in chronic toxicity tests.
	(4-methylphenyl)imin		
Speci NOAE		: Rat, male and fe	emale
	=∟ cation Route	: 100 mg/kg : Oral	
	sure time	: 28 d	
	per of exposures	: daily	
Dose		: 100/300/600/10	00 mg/kg bw/day
Metho	bd	: OECD Test Gui	
GLP		: yes	
Rema	arks	substances.	n is based on data obtained from similar
2,6-di	i-tert-butyl-p-cresol:		
, Speci		: Pig, male and fe	emale
NOAE		: >= 61 mg/kg	
	cation Route	: oral (feed)	
	sure time	: daily	
Metho	bd	: Chronic toxicity	
3,9-bi	is(2,4-di-tert-butylphe	noxy)-2,4,8,10-tetrao	xa-3,9-diphosphaspiro[5.5]undecane:
Speci		: Rat, male and fe	
NOAE	TI	: 55 - 71 mg/kg/d	











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Version 0.0	Revision Date: 01/11/2022	SDS Number: 400000010906	Date of last issue: - Date of first issue: 01/11/2022
Expo	cation Route sure time per of exposures od	: Ingestion : 2,160 h : 7 d : Subchronic tox	Print Date 01/11/2022
-	r ation toxicity ata available		
•	rience with human e ata available	exposure	
	c ology, Metabolism, ata available	Distribution	
	ological effects ata available		
	ner information ata available		
SECTION	12. ECOLOGICAL II	NFORMATION	
Ecot	oxicity		
<u>Com</u>	ponents:		
		o[2.2.1]hept-2-yl meth	acrylate:

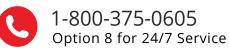
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 1.79 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 2.57 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 2.66 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.233 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211 GLP: yes

2-hydroxyethyl methacrylate:

Toxicity to fish

 LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203







(Chronic toxicity)

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	DITE® 2080-15 A				Enriching lives through innovatio
Version 0.0	Revision Date: 01/11/2022		0S Number: 0000010906	Date of last issu Date of first issu	
					Print Date 01/11/202
	ity to daphnia and other tic invertebrates	:	Exposure time: 4	ı (Water flea)): 380 8 h 'est Guideline 202	0
Toxicity to algae/aquatic plants		:	Exposure time: 7	•	n (green algae)): 836 mg/l I
			Exposure time: 7	•	n (green algae)): 400 mg/l I
	ity to daphnia and other tic invertebrates	:	NOEC (Daphnia Exposure time: 2	magna (Water flea 1 d	a)): 24.1 mg/l

methacrylic acid, monoester with propane-1.2-diol:

methaci yiic aciu, monoester	WI	lii propane-1,2-ului.
Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): 493 mg/l Exposure time: 48 h Test Type: static test Test substance: Fresh water Method: DIN 38412
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 143 mg/l Exposure time: 48 h Test Type: semi-static test Test substance: Fresh water
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): > 97.2 mg/l Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 45.2 mg/l Exposure time: 21 d Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 211
Ecotoxicology Assessment		
Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
methacrylic acid:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 85 mg/l End point: mortality Exposure time: 96 h Test Type: flow-through test Test substance: Fresh water Method: Fish Acute Toxicity Test

Method: OECD Test Guideline 211



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GLP: yes



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	Version 0.0	Revision Date: 01/11/2022		0S Number: 0000010906	Date of last issue: Date of first issue:		22
-				Remarks: Toxic to	o aquatic organisms		Date 01/11/2022
		/ to daphnia and other invertebrates	:	End point: Immob Exposure time: 48 Test Type: flow-th Analytical monitor Test substance: F	3 h nrough test ring: yes		-
	Toxicity plants	/ to algae/aquatic	:	ErC50 (Selenastri Exposure time: 72 Test Type: static t Analytical monitor Test substance: F Method: OECD To GLP: yes	test ring: yes Fresh water	green alg	ae)): 45 mg/l
				NOEC (Selenastr Exposure time: 72 Test Type: static t Analytical monitor Test substance: F Method: OECD To GLP: yes	test ring: yes Fresh water	green alç	jae)): 8.2 mg/l
	Toxicity toxicity	/ to fish (Chronic)	:	NOEC (Brachyda Exposure time: 35 Test Type: flow-th Analytical monitor Test substance: F Method: OECD To GLP: yes	nrough test ring: yes Fresh water): 10 mg/	I
	aquatic	/ to daphnia and other invertebrates ic toxicity)	:	NOEC (Daphnia r Exposure time: 21 Test Type: flow-th Analytical monitor Test substance: F Method: OECD Te GLP: yes	nrough test ring: yes Fresh water	: 53 mg/l	
	Toxicity	/ to microorganisms	:	EC50 (Pseudomo Exposure time: 16 Test Type: static t Analytical monitor Test substance: F Method: DIN 38 4 GLP: yes	test ring: no Fresh water	g/I	
		m dioxide: / to fish	:	LC50 (Cyprinodor 10,000 mg/l Exposure time: 96	n variegatus (sheep 6 h	shead mi	nnow)): >
रूरे रहे		UDOLPH ROS. ဥ CO	C	1-800-37 Option 8 fc	75-0605 or 24/7 Service		www.rudolphbros rbcsupport@rud

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Version 0.0	Revision Date: 01/11/2022		OS Number: 0000010906	Date of last issue: - Date of first issue: 01/11/2022
			Test Type: semi- Test substance: Method: OECD	
Plant	toxicity	:	NOEC: 100,000 Exposure time: 4	
Sediment toxicity		:	(Gammarus pul Study: Acute Test Type: semi- Water: Fresh wa Exposure duratio Method: ASTM N	iter on: 28 d
			(Gammarus pul Study: Chronic Test Type: semi- Water: Fresh wa Exposure duratic Method: ASTM N	iter on: 28 d
			(Gammarus pul Study: Acute Test Type: semi- Water: Marine w Exposure duratio	rater
Toxici organ	ity to terrestrial isms	:	NOEC: 10,000 n Exposure time: 6	
2,2'-[((4-methylphenyl)imino]	bis	ethanol:	
Toxic	ity to fish	:	End point: morta Exposure time: 9 Test Type: static Analytical monito Test substance: Method: OECD GLP: yes	96 h s test pring: yes
	ity to daphnia and other ic invertebrates	:	End point: Immo Exposure time: 4 Test Type: static Analytical monito Test substance: Method: OECD GLP: yes	48 h c test oring: yes Fresh water Test Guideline 202 nation given is based on data obtained from
Toxici plants	ity to algae/aquatic	:	EC50 (Pseudoki mg/l Exposure time: 7 Test Type: static	











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ARALDITE® 2080-15 A							
Version 0.0	Revision Date: 01/11/2022		0S Number: 0000010906	Date of last issue: - Date of first issue: 01/11/2022			
			Analytical monito	Print Date 01/11/2022			
			Test substance: F	resh water			
			Method: OECD T GLP: yes	est Guideline 201			
				on data from similar materials			
			NOEC (Pseudoki mg/l	rchneriella subcapitata (green algae)): > 100			
			Exposure time: 72				
			Test Type: static Analytical monito				
			Test substance: F				
				est Guideline 201			
			GLP: yes Remarks: Based	on data from similar materials			
Toyle	ty to microorganismo						
	ty to microorganisms	:	EC50 (activated s Exposure time: 3	sludge): > 1,000 mg/l h			
			Test Type: static	test			
			Analytical monito Test substance: F				
				est Guideline 209			
			GLP: yes				
			Remarks: Informa similar substance	ation given is based on data obtained from			
			Similar Substance	5.			
2,6-di	-tert-butyl-p-cresol:						
Toxici	ty to fish	:	LC50 (Fish): 0.19				
			Exposure time: 9 Test substance: F				
			Method: QSAR				
Toxici	ty to daphnia and other	:	EC50 (Daphnia n	nagna (Water flea)): 0.48 mg/l			
	ic invertebrates		End point: Immob	ilization			
			Exposure time: 4 Test Type: static				
			Test substance: F				
			Method: OECD T	est Guideline 202			
	ty to algae/aquatic	:		chneriella subcapitata (green algae)): > 0.24			
plants	;		mg/l Exposure time: 7	2 h			
			Test Type: static				
			Test substance: F	Fresh water			
			Method: OECD T	est Guideline 201			
			NOEC (Pseudoki mg/l	rchneriella subcapitata (green algae)): 0.24			
			Exposure time: 7	2 h			
			Test Type: static	test			
			Test substance: F Method: OECD T				
Toxici	ty to fish (Chronic	:	NOEC (Oryzias la	atipes (Orange-red killifish)): 0.053 mg/l			
toxicit			Exposure time: 3				





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ersion .0	Revision Date: 01/11/2022	SDS Nun 4000000		Date of last issue: Date of first issue:	
		Metho	od: OECD Te	st Guideline 210	Print Date 01/11/2022
		Expo	C (Fish): >= 2 sure time: 70 substance: Fi	d	
aquat	ity to daphnia and other ic invertebrates nic toxicity)	Expo Test	sure time: 21 substance: Fr		0.096 mg/l
		Expo Test	sure time: 21 substance: Fr		: 0.069 mg/l
M-Fa toxicit	ctor (Chronic aquatic	: 1			
	ity to microorganisms	Expo	0 (activated s sure time: 24 Type: static te		
3,9-b	is(2,4-di-tert-butylphen	oxy)-2,4,8	8,10-tetraoxa	-3,9-diphosphasp	iro[5.5]undecane:
Toxic	ity to fish	Expo Test Test	sure time: 96 Type: static te substance: Fr	est	70.7 mg/l
Toxic plants	ity to algae/aquatic s	Expo Test	sure time: 72 substance: M	h	reen algae)): 97 mg/l
M-Fa toxicit	ctor (Acute aquatic	: 1			
	ity to fish (Chronic	Expo Test Test	sure time: 96 Type: static te substance: Fr	est): 50 mg/l
aquat	ity to daphnia and other ic invertebrates nic toxicity)	Expo Test Test	sure time: 21 Type: semi-st substance: Fr	atic test	: 0.1 mg/l
M-Fa toxicit	ctor (Chronic aquatic	: 1			
	ity to microorganisms	Expo Test): > 1,000 mg sure time: 3 h Type: static te substance: Fi	est	



• 1-800-375-0605 Option 8 for 24/7 Service



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ARALD	ITE® 2080-15	4	Enriching lives through innovation
Version	Revision Date:	SDS Number:	Date of last issue: -
0.0	01/11/2022	40000010906	Date of first issue: 01/11/2022
Persis	stence and degradab	ility	Print Date 01/11/2022
	onents:	-	
exo-1	,7,7-trimethylbicyclo	[2.2.1]hept-2-yl meth	acrylate:
Biode	gradability	Exposure time:	v biodegradable.
2-hyd	roxyethyl methacryla	ate:	
Biode	gradability	Biodegradation Exposure time:	
metha	acrylic acid, monoes	ter with propane-1,2	-diol:
Biode	gradability	Biodegradation Exposure time:	100 mg/l v biodegradable. i: 81 %
Stabili	ty in water	Method: OECE	alf life (DT50): 73.3 d (40 °C) pH: 7) Test Guideline 111 nation available.
		Method: OECE	alf life (DT50): 38.2 d (40 °C) pH: 9) Test Guideline 111 nation available.
metha	acrylic acid:		
	gradability	Biodegradation Exposure time:	3 mg/l v biodegradable. i: 86 %
2.2'-[(4-methylphenyl)imin	olbisethanol:	
	gradability	: aerobic Inoculum: activ Concentration: Result: Not bio Biodegradatior Exposure time: Method: OECE GLP: yes	degradable i: 1.5 %





Option 8 for 24/7 Service

Remarks: Based on data from similar materials



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sion	Revision Date: 01/11/2022	SDS Num 40000001		Date of last issue: - Date of first issue: 01/11/2022
				Print Date 01/11/202
2.6-di	-tert-butyl-p-cresol:			
	gradability	: Result	: Not biode	gradable
	i s(2,4-di-tert-butylph o gradability	: Inoculi Conce Result Biodeg	um: activate ntration: 31	mg/l y biodegradable. < 10 %
Bioac	cumulative potentia			
Comp	oonents:			
2-hyd	Iroxyethyl methacryl	ate:		
	on coefficient: n- ol/water	: log Po pH: 5.9		°F / 25 °C)
metha	acrylic acid:			
	on coefficient: n- ol/water	: log Po pH: 2.2		°F / 22 °C)
titani	um dioxide:			
Bioac	cumulation	Biocor Expos Test s Metho	ncentration ure time: 14 ubstance: F d: semi-stat	Fresh water
2,2'-[((4-methylphenyl)imin	o]bisethano	I:	
Partiti	on coefficient: n- ol/water	· log Po pH: 7	w: 2 (95 °F	/ 35 °C) est Guideline 117
2,6-di	-tert-butyl-p-cresol:			
	cumulation	Biocor Expos		
	on coefficient: n- ol/water	: log Po	w: 5.2	
3,9-bi	s(2,4-di-tert-butylpho	enoxy)-2,4,8,	10-tetraoxa	a-3,9-diphosphaspiro[5.5]undecane:
Bioac	cumulation	: Biocor	ncentration	factor (BCF): 164
	on coefficient: n- ol/water	: log Po	w: 10.9 (77	°F / 25 °C)





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Vers 0.0	sion Revision Date: 01/11/2022	SDS Number: 40000001090	Date of last issue: - Date of first issue: 01/11/2022
	Mobility in soil		Print Date 01/11/2022
	Components:		
	2,6-di-tert-butyl-p-creso Distribution among environmental compartm	: Koc: 8183	
	Other adverse effects		
	Product:		
	Ozone-Depletion Potenti	Protection Substance Remarks: manufactu	: 40 CFR Protection of Environment; Part 82 of Stratospheric Ozone - CAA Section 602 Class I s This product neither contains, nor was red with a Class I or Class II ODS as defined by the Air Act Section 602 (40 CFR 82, Subpt. A, App.A +
	Additional ecological information	unprofessi Toxic to ac	mental hazard cannot be excluded in the event of onal handling or disposal. juatic life. aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 The product should not be allowed to enter drains, water courses or the soil. 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
Contaminated packaging	plant.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product.
	Do not re-use empty containers.
	Do not burn, or use a cutting torch on, the empty drum.

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

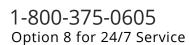
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations









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NA 1993
Combustible liquid, n.o.s. (METHACRYLIC ACID)
CBL
III
NONE
128
no
Above applies only to containers over 119 gallons or 450
liters. Not regulated if shipped in packages less than or equal
to 119 gallons (450 liters).

Special precautions for user

Remarks : 49CFR: no dangerous 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

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 311/312 Hazards	Flammable (gases, aerosols, liquids, or solids) Respiratory or skin sensitisation Skin corrosion or irritation Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure)
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 titanium dioxide, ethylene oxide, which is/are known to the State of California to cause cancer, and

Ethylene glycol, methanol, ethylene oxide, 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	: This product contains one or several components that are not on the Canadian DSL nor NDSL.
AIIC	: On the inventory, or in compliance with the inventory
NZIoC	: Not in compliance with the inventory
ENCS	: Not in compliance with the inventory









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KECI		Print Date 01/11/2022 : On the inventory, or in compliance with the inventory			
PICCS		: Not in compliance with the inventory			
IECSC		: On the inventory, or in compliance with the inventory			
TCSI		: On the invento	: On the inventory, or in compliance with the inventory		
TSCA : All substances listed as active on the T		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)

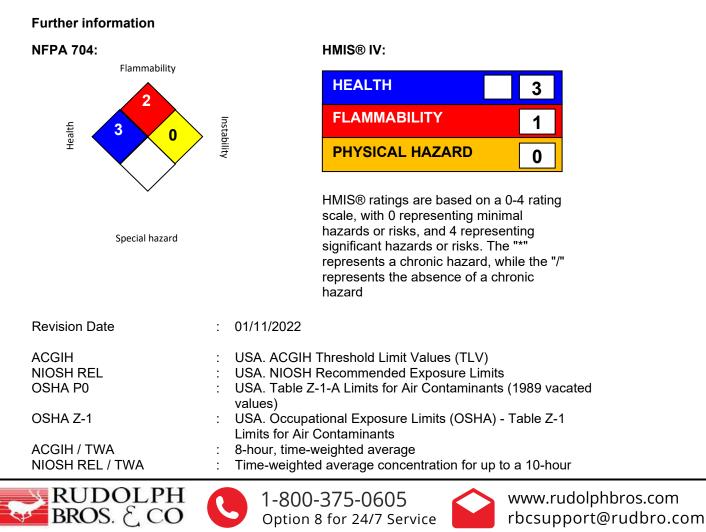
TSCA - 5(a) Significant New Use Rule List of Chemicals

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



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0.0	01/11/2022	400000010906	Date of first issue: 0´	
		workday during	a 40-hour workweek	Print Date 01/11/2022

OSHA P0 / TWA:8-hour time weighted averageOSHA Z-1 / TWA:8-hour time weighted average

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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.

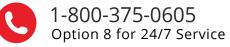
THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

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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