



Version 1.0	Revision Date: 09/22/2020		DS Number: 3000016239	Date of last issue: - Country / Language: US / EN
SECTIC	ON 1. IDENTIFICATION			
Pro	oduct name	:	ROYCO 49 MIL-E	DTL-23549
Pro	oduct code	:	0000000005832	2772
Ма	nufacturer or supplier's	deta	ails	
Co	mpany	:	111 RIDC Park V	Regulatory Affairs
Re	sponsible Department	:	+1800LANXESS	
Em	ergency telephone numbe	ər :	CHEMTREC: International:	+1 (800) 424 9300 +1 (703) 527 3887
Re	commended use of the c	chen	nical and restriction	ons on use
Re	commended use	:	Lubricant	
Re	strictions on use	:	Reserved for indu	ustrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

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

	•	
GHS label elements Hazard pictograms		^ ^
Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney)
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)
Specific target organ toxicity - single exposure	:	Category 2 (Blood)
Carcinogenicity	:	Category 1A
Skin sensitisation	:	Category 1

ROYCO 49 MIL-DTL-23549



ersion 0	Revision Date: 09/22/2020	SDS Number: 203000016239	Date of last issue: - Country / Language: US / EN
Signa	l word	: Danger	
Hazar	d statements	May cause resp May cause can May cause dan	nage to organs (Blood). nage to organs (Kidney) through prolonged or
Preca	utionary statements	Prevention:	
		Do not handle u understood. Do not breathe Wash skin thore Do not eat, drin Use only outdo Contaminated w workplace.	nstructions before use. Intil all safety precautions have been read and dust/ fume/ gas/ mist/ vapours/ spray. Dughly after handling. k or smoke when using this product. Dors or in a well-ventilated area. Work clothing must not be allowed out of the e gloves/ protective clothing/ eye protection/ face
		IF INHALED: R for breathing. C well. IF exposed or c IF exposed or c If skin irritation	ash with plenty of soap and water. emove person to fresh air and keep comfortable all a POISON CENTER/ doctor if you feel un- concerned: Call a POISON CENTER/ doctor. concerned: Get medical advice/ attention. or rash occurs: Get medical advice/ attention. ated clothing before reuse.
		Storage:	
		Store in a well- Store locked up	ventilated place. Keep container tightly closed.
		Disposal:	
		Dispose of cont plant.	ents/ container to an approved waste disposal
	hazards		
None	known.		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Paraffin oils (petroleum), catalytic	64742-70-7	>= 70 - < 90



Version 1.0	Revision Date: 09/22/2020		Number: 0016239	 e of last issue: - ntry / Language: US / EN
dewa	xed heavy		1	
sodiu	m nitrite		7632-00-0	>= 1 - < 5
N-PH	ENYL-1-NAPHTHYLA	AMINE	90-30-2	>= 1 - < 5
Cryst	alline Quartz Silica		14808-60-7	>= 0.1 - < 1
	enzotriazole-1-methar bis(2-ethylhexyl)-ar-me		94270-86-7	>= 0.1 - < 1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

If inhaled :	 Remove to fresh air immediately. Get medical attention immediately. Get medical attention immediately. If unconscious, place in recovery position and get medical attention immediately. Maintain open airway. Loosen tight clothing such as a collar, tie, belt or waistband. The exposed person may need to be kept under medical surveillance for 48 hours. If not breathing give artificial respiration using a pocket mask type resuscitator. Move to an area free from further exposure. Administer oxygen or artificial respiration as needed. Asthmatic symptoms may develop and may be immediate or delayed up to several hours. Extreme asthmatic reactions can be life threatening.
In case of skin contact	Wash off with warm water and soap. Cool skin rapidly with cold water after contact with molten material. Wash skin immediately with plenty of water and soap. Subse- quent cleansing with polyethyleneglycol 400, then again with water and soap. Continue to rinse for 30 minutes.
In case of eye contact	Immediately flush eye(s) with plenty of water. Remove contact lenses.
If swallowed	 Rinse mouth with water. Do not induce vomiting unless directed to do by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If unconscious, place in recovery position and get medical attention immediately. Never give anything by mouth to an unconscious person. Maintain open airway.

Most important symptoms and effects, both acute and delayed



ROYCO 49 MIL-DTL-23549

Version 1.0	Revision Date: 09/22/2020	SDS Number: 203000016239	Date of last issue: - Country / Language: US / EN
S	ymptoms	and swelling. Once sensitize reddening, swe very low levels Acute overexp headache, dro Skin, Ingestior mation resultin gen. A symptom of	Arritation with symptoms of reddening, itching, ed, an allergic skin reaction may occur with elling, and rash when subsequently exposed to s. osure to this product may cause dizziness, wsiness, malaise, abdominal pain. h, Inhalation: May cause methemoglobin for- ng in a reduced ability of the blood to carry oxy- f methemoglobin formation may be cyanosis coloring of the skin, fingernails, and lips).
Ef	fects	May cause res May cause car May cause da	allergic skin reaction. spiratory irritation. ncer. mage to organs. mage to organs through prolonged or repeated
Prote	ection of first-aiders	and use the real and use the real and use the real and use the real and the read and the read and the read and the read and the real an	nders should pay attention to self-protection commended protective clothing exposure exists refer to Section 8 for specific ctive equipment.
Notes	s to physician	gernails). Spor after termination treatment. Provi clinical signs/sy- methemoglobin if clinically indice considered if m indicated (G6P for severe case themoglobin de be observed for hours or more ure and arrhyth should be mon days after expor In case of inha symptoms may	lation of decomposition products in a fire, / be delayed. erson may need to be kept under medical sur-

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.





Ver 1.0	sion	Revision Date: 09/22/2020		9S Number: 3000016239	Date of last issue: - Country / Language: US / EN
	Unsuita media	able extinguishing	:	High volume wate	r jet
	Specific fighting	c hazards during fire-	:	ing or thermal dec	g gases/fumes may be given off during burn- composition. mposition products may be a hazard to
	Hazard ucts	ous combustion prod-	:	Sulphur oxides Metal oxides Nitrogen oxides (I Carbon dioxide (C Carbon monoxide	CO2)
	Further	information	:	vicinity of the incid No action shall be suitable training.	ne scene by removing all persons from the dent if there is a fire. taken involving any personal risk or without iners exposed to fire with water.
	Special for firef	protective equipment ighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protection equipment. Do not touch or walk through spilled material. Evacuate personnel to safe areas. Keep unnecessary and unprotected personnel from entering.
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	:	 Stop leak if safe to do so. Move containers from spill area. Wash spillages into an effluent treatment plant or proceed as follows. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Dispose of wastes in an approved waste disposal facility. Do not allow into the sewerage system, surface waters or groundwater or into the soil.

SECTION 7. HANDLING AND STORAGE





Versior 1.0	n Revision Date: 09/22/2020	SDS Number: 203000016239	Date of last issue: - Country / Language: US / EN
Ac	dvice on safe handling	fore entering e Workers shoul and smoking. Put on approp Eating, drinkin where this mat Persons with a	minated clothing and protective equipment be- ating areas. d wash hands and face before eating, drinking riate personal protection equipment. g and smoking should be prohibited in areas terial is handled, stored and processed. a history of skin sensitization to this product employed in any process in which this product
Co	onditions for safe storage	Store in origina dry, cool and v materials (see Keep containe Containers tha and kept uprig Do not store in Use appropriation.	dance with local regulations. al container protected from direct sunlight in a vell-ventilated area, away from incompatible Section 10) and food and drink. r closed when not in use. It have been opened must be carefully resealed ht to prevent leakage. I unlabeled containers. te container to avoid environmental contamina- ers retain residue and can be dangerous.
	irther information on stor- le stability	: Stable under r	ecommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Paraffin oils (petroleum), cata- lytic dewaxed heavy	64742-70-7	TWA (Mist)	5 mg/m3	OSHA Z-1
molybdenum disulphide	1317-33-5	TWA (total dust)	15 mg/m3 (Molybdenum)	OSHA Z-1
		TWA (Inhal- able particu- late matter)	10 mg/m3 (Molybdenum)	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3 (Molybdenum)	ACGIH
graphite	7782-42-5	TWA (Dust)	15 Million parti- cles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respir-	5 mg/m3	OSHA Z-1

Components with workplace control parameters



	vision Date: /22/2020		DS Number: 03000016239	Date of las Country / L	t issue: - .anguage: US / EN	
		I		here for attain)	1	1
				able fraction)		
				TWA (Res-	2 mg/m3	ACGIH
				pirable par- ticulate mat-		
Crystalling	Quartz Silica		14808-60-7	ter) TWA (Res-	0.05 mg/m3	OSHA Z-1
Crystalline			14000-00-7	pirable dust)	0.00 mg/m3	00117 2-1
				TWA (respir-	10 mg/m3 /	OSHA Z-3
				able)	%SiO2+2	001 # 12 0
				TWA (respir-	250 mppcf /	OSHA Z-3
				able)	%SiO2+5	
				TWA (Res-	0.025 mg/m3	ACGIH
				pirable par-	(Silica)	
				ticulate mat-		
				ter)		
				PEL (respir-	0.05 mg/m3	OSHA CAR
				able)		
Engineerin	ng measures	•	If user operat	tions generate du	ust, fumes or mist,	use ventila-
	.g	•			orne contaminants	
			exposure limi			
Personal p	protective equip	ment				
-		ment		election must be	based on known o	r anticipated
Personal p Respiratory		ment :	Respirator se		based on known o of the product and	
-		ment :	Respirator se exposure leve	els, the hazards	of the product and	
-		ment :	Respirator se exposure leve working limits	els, the hazards of the selected	of the product and respirator.	the safe
-		ment :	Respirator se exposure leve working limits In case of mis	els, the hazards s of the selected st, spray or aeros	of the product and	the safe
Respiratory	v protection	ment :	Respirator se exposure leve working limits In case of mis	els, the hazards s of the selected st, spray or aeros	of the product and respirator. sol exposure wear	the safe
Respiratory Hand prote	v protection	ment :	Respirator se exposure leve working limits In case of mis sonal respira	els, the hazards s of the selected st, spray or aeros	of the product and respirator. sol exposure wear	the safe
Respiratory Hand prote Material	r protection	ment :	Respirator se exposure leve working limits In case of mis sonal respira butyl-rubber	els, the hazards s of the selected st, spray or aeros	of the product and respirator. sol exposure wear	the safe
Respiratory Hand prote	r protection	ment : :	Respirator se exposure leve working limits In case of mis sonal respira	els, the hazards s of the selected st, spray or aeros	of the product and respirator. sol exposure wear	the safe
Respiratory Hand prote Material Wearing	r protection	ment : : :	Respirator se exposure leve working limits In case of mis sonal respira butyl-rubber < 60 min	els, the hazards s of the selected st, spray or aeros tory protection a	of the product and respirator. sol exposure wear nd protective suit.	the safe suitable per-
Respiratory Hand prote Material	r protection	ment : : :	Respirator se exposure leve working limits In case of mis sonal respirat butyl-rubber < 60 min Impervious g	els, the hazards s of the selected st, spray or aeros tory protection a loves When hand	of the product and respirator. sol exposure wear	the safe suitable per-
Respiratory Hand prote Material Wearing	r protection	ment : : :	Respirator se exposure leve working limits In case of mis sonal respira butyl-rubber < 60 min	els, the hazards s of the selected st, spray or aeros tory protection a loves When hand	of the product and respirator. sol exposure wear nd protective suit.	the safe suitable per-
Respiratory Hand prote Material Wearing	r protection ction g time s	ment : : :	Respirator se exposure leve working limits In case of mis sonal respirat butyl-rubber < 60 min Impervious g resistant glov	els, the hazards s of the selected st, spray or aeros tory protection a loves When hand	of the product and respirator. sol exposure wear nd protective suit.	the safe suitable per-
Respiratory Hand prote Material Wearing Remarks	r protection ction time s	ment : : :	Respirator se exposure leve working limits In case of mis sonal respirat butyl-rubber < 60 min Impervious g resistant glow Tightly fitting	els, the hazards s of the selected st, spray or aeros tory protection a loves When hand res. safety goggles	of the product and respirator. sol exposure wear nd protective suit. dling hot material,	the safe suitable per-
Respiratory Hand prote Material Wearing Remarks	r protection ction g time s	ment : : : :	Respirator se exposure leve working limits In case of mis sonal respirat butyl-rubber < 60 min Impervious g resistant glow Tightly fitting Wear suitable	els, the hazards s of the selected st, spray or aeros tory protection a loves When hand es. safety goggles	of the product and respirator. sol exposure wear nd protective suit. dling hot material,	the safe suitable per- use heat
Respiratory Hand prote Material Wearing Remarks	r protection ction time s	ment : : : :	Respirator se exposure leve working limits In case of mis sonal respirat butyl-rubber < 60 min Impervious g resistant glow Tightly fitting Wear suitable Permeation r	els, the hazards s of the selected st, spray or aeros tory protection a loves When hand es. safety goggles e protective cloth esistant clothing	of the product and respirator. sol exposure wear nd protective suit. dling hot material, ing. and foot protectior	the safe suitable per- use heat n.
Respiratory Hand prote Material Wearing Remarks	r protection ction time s	ment : : : :	Respirator se exposure leve working limits In case of mis sonal respirat butyl-rubber < 60 min Impervious g resistant glow Tightly fitting Wear suitable Permeation r When handlin	els, the hazards s of the selected st, spray or aeros tory protection a loves When hand res. safety goggles e protective cloth esistant clothing ng hot material w	of the product and respirator. sol exposure wear nd protective suit. dling hot material,	the safe suitable per- use heat n.
Respiratory Hand prote Material Wearing Remarks	r protection ction time s	ment : : : :	Respirator se exposure leve working limits In case of mis sonal respirat butyl-rubber < 60 min Impervious g resistant glow Tightly fitting Wear suitable Permeation r	els, the hazards s of the selected st, spray or aeros tory protection a loves When hand res. safety goggles e protective cloth esistant clothing ng hot material w	of the product and respirator. sol exposure wear nd protective suit. dling hot material, ing. and foot protectior	the safe suitable per- use heat n.
Respiratory Hand prote Material Wearing Remarks Eye protect Skin and bo	r protection ction g time s tion ody protection	ment : : : :	Respirator se exposure leve working limits In case of mis sonal respirat butyl-rubber < 60 min Impervious g resistant glov Tightly fitting Wear suitable Permeation r When handlin prevent therm	els, the hazards s of the selected st, spray or aeros tory protection an loves When hand res. safety goggles e protective cloth esistant clothing ng hot material w nal burns.	of the product and respirator. sol exposure wear nd protective suit. dling hot material, and foot protectior year heat resistant	the safe suitable per- use heat n. clothing to
Respiratory Hand prote Material Wearing Remarks	r protection ction g time s tion ody protection	ment : : : :	Respirator se exposure leve working limits In case of mis sonal respirat butyl-rubber < 60 min Impervious g resistant glov Tightly fitting Wear suitable Permeation r When handlin prevent therm	els, the hazards s of the selected st, spray or aeros tory protection an loves When hand es. safety goggles e protective cloth esistant clothing ng hot material w nal burns.	of the product and respirator. sol exposure wear nd protective suit. dling hot material, and foot protectior year heat resistant	the safe suitable per- use heat n. clothing to r handling
Respiratory Hand prote Material Wearing Remarks Eye protect Skin and bo	r protection ction g time s tion ody protection	ment : : : :	Respirator se exposure leve working limits In case of mis sonal respirat butyl-rubber < 60 min Impervious g resistant glow Tightly fitting Wear suitable Permeation r When handlir prevent therm Wash hands, chemical pro-	els, the hazards s of the selected st, spray or aeros tory protection an loves When hand res. safety goggles e protective cloth esistant clothing ng hot material w nal burns. forearms and fa ducts, before eat	of the product and respirator. sol exposure wear nd protective suit. dling hot material, and foot protectior year heat resistant ace thoroughly afte ting, smoking and t	the safe suitable per- use heat n. clothing to r handling
Respiratory Hand prote Material Wearing Remarks Eye protect Skin and bo	r protection ction g time s tion ody protection	ment : : : :	Respirator se exposure leve working limits In case of mis sonal respirat butyl-rubber < 60 min Impervious g resistant glow Tightly fitting Wear suitable Permeation r When handlir prevent therm Wash hands, chemical pro- lavatory and	els, the hazards s of the selected st, spray or aeros tory protection and loves When hand res. safety goggles e protective cloth esistant clothing ing hot material with hal burns. forearms and fa ducts, before eat at the end of the	of the product and respirator. sol exposure wear nd protective suit. dling hot material, and foot protectior year heat resistant ace thoroughly afte ting, smoking and u working period.	the safe suitable per- use heat n. clothing to r handling using the
Respiratory Hand prote Material Wearing Remarks Eye protect Skin and bo	r protection ction g time s tion ody protection	ment : : : :	Respirator se exposure leve working limits In case of mis sonal respirat butyl-rubber < 60 min Impervious g resistant glow Tightly fitting Wear suitable Permeation r When handlin prevent therm Wash hands, chemical pro- lavatory and Appropriate t	els, the hazards s of the selected st, spray or aeros tory protection and loves When hand res. safety goggles e protective cloth esistant clothing ing hot material with hal burns. forearms and fa ducts, before eat at the end of the echniques should	of the product and respirator. sol exposure wear nd protective suit. dling hot material, and foot protectior year heat resistant ace thoroughly afte ting, smoking and t	the safe suitable per- use heat n. clothing to r handling using the
Respiratory Hand prote Material Wearing Remarks Eye protect Skin and bo	r protection ction g time s tion ody protection	ment : : :	Respirator se exposure leve working limits In case of mis sonal respirat butyl-rubber < 60 min Impervious g resistant glow Tightly fitting Wear suitable Permeation r When handlin prevent therm Wash hands, chemical pro- lavatory and Appropriate to contaminated	els, the hazards s of the selected st, spray or aeros tory protection and loves When hand res. safety goggles e protective cloth esistant clothing ing hot material with hal burns. forearms and fa ducts, before eat at the end of the echniques should clothing.	of the product and respirator. sol exposure wear nd protective suit. dling hot material, and foot protection year heat resistant the thoroughly afte ting, smoking and to working period. d be used to remov	the safe suitable per- use heat n. clothing to r handling using the
Respiratory Hand prote Material Wearing Remarks Eye protect Skin and bo	r protection ction g time s tion ody protection	ment : : :	Respirator se exposure leve working limits In case of mis sonal respirat butyl-rubber < 60 min Impervious g resistant glow Tightly fitting Wear suitable Permeation r When handlin prevent therm Wash hands, chemical pro- lavatory and Appropriate to contaminated Wash contam	els, the hazards s of the selected st, spray or aeros tory protection and loves When hand ess. safety goggles e protective cloth esistant clothing ing hot material with hal burns. forearms and fa ducts, before eat at the end of the echniques should clothing. hinated clothing b	of the product and respirator. sol exposure wear nd protective suit. dling hot material, and foot protection year heat resistant the thoroughly afte ting, smoking and to working period. d be used to remov	the safe suitable per- use heat n. clothing to r handling using the ve potentially





VersionRevision Date:SDS Number:Date of last issue: -1.009/22/2020203000016239Country / Language: US / EN

Appearance	:	viscous liquid
Colour	:	black
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Drop point	:	450 °F / 232 °C Method: ASTM D 2265
Boiling point/boiling range	:	No data available
Flash point	:	> 392 °F / > 200 °C
		Method: open cup
Evaporation rate	:	No data available
Self-ignition	:	No data available
Burning number	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	No data available
Relative density	:	0.99
Density	:	No data available
Solubility(ies) Water solubility	:	negligible
Solubility in other solvents	:	partly soluble
Partition coefficient: n-	:	No data available



ROYCO 49 MIL-DTL-23549

Vers 1.0	sion	Revision Date: 09/22/2020		S Number: 3000016239	Date of last issue: - Country / Language: US / EN
	octano	l/water			
	Auto-ig	nition temperature	:	not determined	
	Decom	position temperature	:	No data available	9
		celerating decomposi- nperature (SADT)	:	Method: No infor	mation available.
	Viscosi Visc	ty cosity, dynamic	:	No data available	9
	Viso	cosity, kinematic	:	No data available	9
	Explos	ive properties	:	No data available	9
	Oxidizi	ng properties	:	No data available	9
SEC	CTION 1	0. STABILITY AND RI	EAC	ΤΙVITY	

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reac- tions	:	Under normal conditions of storage and use, hazardous reac- tions will not occur.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Sodium oxides Sulphur oxides Carbon oxides Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 2,005 mg/kg Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
		0 / 00





Version Revision Date: SDS Number: Date of last issue: -1.0 09/22/2020 203000016239 Country / Language: US / EN **Components:** Paraffin oils (petroleum), catalytic dewaxed heavy: : LD50 (Rat, male and female): > 5,000 mg/kg Acute oral toxicity Method: OECD Test Guideline 401 GLP: yes Remarks: Based on data from similar materials Acute inhalation toxicity : LC50 (Rat, male and female): > 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: No information available. Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on data from similar materials LD50 (Rabbit, male and female): > 5,000 mg/kg Acute dermal toxicity : Method: OECD Test Guideline 402 GLP: ves Remarks: Based on data from similar materials sodium nitrite: Acute oral toxicity : LD50 (Rat): 85 mg/kg Remarks: Produces methemoglobin. **N-PHENYL-1-NAPHTHYLAMINE:** Acute oral toxicity : LD50 (Rat): 1,625 mg/kg Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-: Acute oral toxicity : LD50 (Rat): 3,313 mg/kg Method: OECD Test Guideline 401 Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Skin corrosion/irritation Not classified based on available information. **Components:** Paraffin oils (petroleum), catalytic dewaxed heavy: Species : Rabbit





Ver 1.0	sion	Revision Date: 09/22/2020		DS Number: 03000016239	Date of last issue: - Country / Language: US / EN
	Exposu Result GLP Remarl	ire time ks	:	24 h No skin irritation yes Based on data fro	om similar materials
	sodiun	n nitrite:			
	Species Methoc Result		:	Rabbit OECD Test Guide No skin irritation	eline 404
	N-PHE	NYL-1-NAPHTHYLAN	/IN	E:	
	Species Method Result		:	Rabbit OECD Test Guide No skin irritation	eline 404
	1H-Ber	nzotriazole-1-methan	ami	ne. N.N-bis(2-eth	/lhexyl)-ar-methyl-:
	Species		:	Rabbit 24 h Irritating to skin.	
	Seriou	s eye damage/eye irr	itat	ion	
	Not cla	ssified based on availa	able	information.	
	<u>Compo</u>	onents:			
	Paraffi	n oils (petroleum), ca	atal	tic dewaxed heav	y:
	Species Result GLP Remarl		:	Rabbit No eye irritation yes Based on data fro	om similar materials
	sodiun	n nitrite:			
	• • • • • •			D - L - Y	

Species	:	Rabbit
Result	:	Irritating to eyes.
Method	:	OECD Test Guideline 405

N-PHENYL-1-NAPHTHYLAMINE:

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

1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:

Species	:	Rabbit
Result	:	No eye irritation



ROYCO 49 MIL-DTL-23549

				Lifeig
ersion 0	Revision Date: 09/22/2020		DS Number: 03000016239	Date of last issue: - Country / Language: US / EN
Respi	iratory or skin sensi	tisatio	on	
_	sensitisation ause an allergic skin	reacti	on.	
-	i ratory sensitisation assified based on ava		information.	
Comp	oonents:			
Paraf	fin oils (petroleum),	cataly	tic dewaxed he	eavy:
Test T Expos Specie Metho Resul GLP Rema	sure routes es od t		yes	uideline 406 e skin sensitisation. from similar materials
N-PH	ENYL-1-NAPHTHYL	AMINI	E:	
Expos Specie Metho Resul	od	:	Skin contact Guinea pig OECD Test Gu May cause ser	uideline 406 nsitisation by skin contact.
1H-Be	enzotriazole-1-metha	anami	ne, N,N-bis(2-e	thylhexyl)-ar-methyl-:
	sure routes es		Dermal Guinea pig	nsitisation by skin contact.
Germ	cell mutagenicity			
Not cl	assified based on ava	ailable	information.	
Comp	oonents:			
Paraf	fin oils (petroleum),	cataly	tic dewaxed he	eavy:
Genot	toxicity in vitro	:		almonella typhimurium vation: with metabolic activation

Result: negative GLP: yes

GLP: No information available.

Method: OECD Test Guideline 476

Remarks: Based on data from similar materials

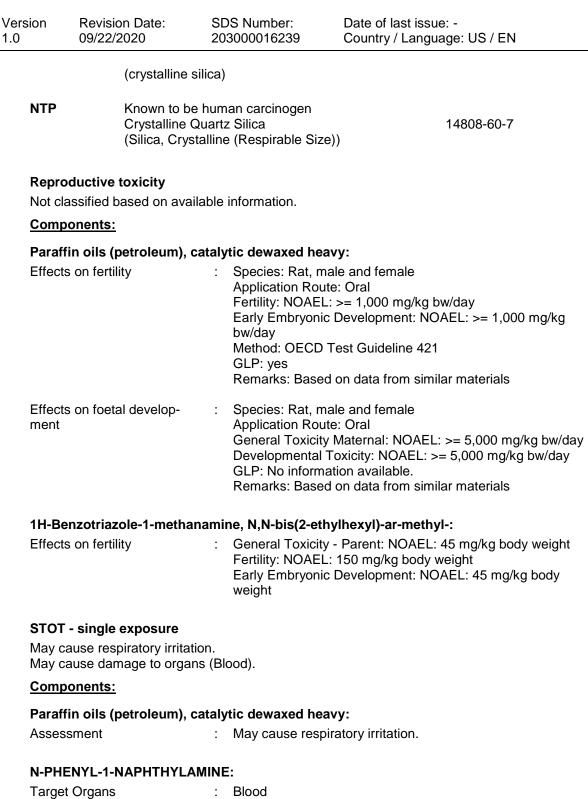
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation





Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Result: negative GEP: no Remarks: Based on data from similar materials Genotoxicity in vivo Species: Mouse (male and female) Cell type: Bone marrow Application Route: Intraperitoneal Method: OECD Test Guideline 474 Result: negative GLP: No information available. Remarks: Based on data from similar materials Definition Route: Intraperitoneal Method: OECD Test Guideline 474 Result: negative GLP: No information available. Remarks: Based on data from similar materials Species :: Mouse, female Application Route :: Dermal Exposure time :: engative GLP :: No information available. Remarks :: Based on data from similar materials Carcinogenicity - Assess- :: Classified based on DMSO extract content < 3% (Regulation ment :: Excessive exposure to airborne crystalline silica can cause fibrotic lung damage, with scarring of the lungs with cough and scaring developed from the silica dust causes	Version 1.0	Revision Date: 09/22/2020	SDS Number: 203000016239	Date of last issue: - Country / Language: US / EN		
Cell type: Bone marrow Application Route: Intraperitoneal Method: OECD Test Guideline 474 Result: negative GLP: No information available. Remarks: Based on data from similar materials Carcinogenicity May cause cancer. Components: Paraffin oils (petroleum), catalytic dewaxed heavy: Species : Mouse, female Application Route : Dermal Exposure time : 78 weeks Frequency of Treatment : various Result : negative GLP : No information available. Remarks : Based on data from similar materials Carcinogenicity - Assess- ment : (EC) 1272/2008, Annex VI, Part 3, Note L) Crystalline Quartz Silica: Not developing fibrotic diesase as symptoms are usual- ly a slowy developing fibrotic diesase as symptoms are usual- ly a slowy developing fibrotic diesase as symptoms are usual- ly a slowy developing fibrotic diesase as symptoms are usual- ly a slowy developing fibrotic diesase as symptoms are usual- ly a slowy developing fibrotic diesase as symptoms are usual- ly a slowy developing fibrotic diesase as progressive massive fibrosis. This may lead to increased susceptibility to tuberculosis. IARC Group 1: Carcinogenic to humans Crystalline Quartz Silica Strica dust, crystalline) 14808-60-7 (Silica dust, crystalline)			Test system: C Metabolic activ Result: negativ GLP: no	hinese hamster ovary cells ation: with and without metabolic activation e		
May cause cancer. Components: Paraffin oils (petroleum), catalytic dewaxed heavy: Species : Application Route : Dermal Exposure time : Exposure time : Result : Carcinogenicity - Assess- : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)	Geno	toxicity in vivo	Cell type: Bone Application Rou Method: OECD Result: negativ GLP: No inform	marrow ute: Intraperitoneal Test Guideline 474 e ation available.		
Support Paraffin oils (petroleum), catalytic dewaxed heavy: Species : Mouse, female Application Route : Dermal Exposure time : 78 weeks Frequency of Treatment : various Result : negative GLP : No information available. Remarks : Based on data from similar materials Carcinogenicity - Assess- ment : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L) Crystalline Quartz Silica: Result : Excessive exposure to airborne crystalline silica can cause fibrotic lung damage, with scarring of the lungs with cough and shortness of breath. This is called "Silicosis". This is general- ly a slowly developing fibrotic disease as symptoms are dyspnea, chest pain, breathlessness, and cough. The chronic lung scarring developed from the silica dust causes a progressive massive fibrosis. This may lead to increased susceptibility to tuberculosis. IARC Group 1: Carcinogenic to humans Crystalline Quartz Silica 14808-60-7 (Silica dust, crystalline) OSHA OSHA specifically regulated carcinogen 14808-60-7	Carci	nogenicity				
Paraffin oils (petroleum), catalytic dewaxed heavy: Species : Mouse, female Application Route : Dermal Exposure time : Result : CLP : Species : Carcinogenicity - Assess- : Carcinogenicity - Assess- : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)	Mayo	cause cancer.				
Species : Mouse, female Application Route : Dermal Exposure time : 78 weeks Frequency of Treatment : various Result : negative GLP : No information available. Remarks : Based on data from similar materials Carcinogenicity - Assess- ment : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L) Crystalline Quartz Silica: : Excessive exposure to airborne crystalline silica can cause fibrotic lung damage, with scarring of the lungs with cough and shortness of breath. This is called "Silicosis". This is general- ly a slowly developing fibrotic disease as symptoms are usual- ly delayed for 10 years or more. Symptoms are dyspnea, chest pain, breathlessness, and cough. The chronic lung scarring developed from the silica dust causes a progressive massive fibrosis. This may lead to increased susceptibility to tuberculosis. IARC Group 1: Carcinogenic to humans Crystalline Quartz Silica 14808-60-7 (Silica dust, crystalline) OSHA OSHA specifically regulated carcinogenic	Com	oonents:				
Application Route : Dermal Exposure time : 78 weeks Frequency of Treatment : various Result : negative GLP : No information available. Remarks : Based on data from similar materials Carcinogenicity - Assessment : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)	Paraf	fin oils (petroleum), c	atalytic dewaxed he	avy:		
ment (EC) 1272/2008, Annex VI, Part 3, Note L) Crystalline Quartz Silica: Excessive exposure to airborne crystalline silica can cause fibrotic lung damage, with scarring of the lungs with cough and shortness of breath. This is called "Silicosis". This is generally a slowly developing fibrotic disease as symptoms are usually delayed for 10 years or more. Symptoms are dyspnea, chest pain, breathlessness, and cough. The chronic lung scarring developed from the silica dust causes a progressive massive fibrosis. This may lead to increased susceptibility to tuberculosis. IARC Group 1: Carcinogenic to humans Crystalline Quartz Silica dust, crystalline) OSHA OSHA specifically regulated carcinogen	Applic Expos Frequ Resu GLP	cation Route sure time lency of Treatment It	: Dermal : 78 weeks : various : negative : No information			
Result: Excessive exposure to airborne crystalline silica can cause fibrotic lung damage, with scarring of the lungs with cough and shortness of breath. This is called "Silicosis". This is general- ly a slowly developing fibrotic disease as symptoms are usual- ly delayed for 10 years or more. Symptoms are dyspnea, chest pain, breathlessness, and cough. The chronic lung scarring developed from the silica dust causes a progressive massive fibrosis. This may lead to increased susceptibility to tuberculosis.IARCGroup 1: Carcinogenic to humans Crystalline Quartz Silica (Silica dust, crystalline)14808-60-7OSHAOSHA specifically regulated carcinogen		nogenicity - Assess-				
 fibrotic lung damage, with scarring of the lungs with cough and shortness of breath. This is called "Silicosis". This is generally a slowly developing fibrotic disease as symptoms are usually delayed for 10 years or more. Symptoms are dyspnea, chest pain, breathlessness, and cough. The chronic lung scarring developed from the silica dust causes a progressive massive fibrosis. This may lead to increased susceptibility to tuberculosis. IARC Group 1: Carcinogenic to humans Crystalline Quartz Silica 14808-60-7 (Silica dust, crystalline) OSHA OSHA specifically regulated carcinogen 	Cryst	alline Quartz Silica:				
Crystalline Quartz Silica 14808-60-7 (Silica dust, crystalline) 0SHA OSHA OSHA specifically regulated carcinogen	Resu	lt	fibrotic lung dar shortness of br ly a slowly deve ly delayed for 1 chest pain, brea scarring develo massive fibrosi	nage, with scarring of the lungs with cough and eath. This is called "Silicosis". This is general- eloping fibrotic disease as symptoms are usual- 0 years or more. Symptoms are dyspnea, athlessness, and cough. The chronic lung ped from the silica dust causes a progressive		
	IARC	Crystalline C	uartz Silica			
	OSH					







ROYCO 49 MIL-DTL-23549

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/22/2020	203000016239	Country / Language: US / EN

STOT - repeated exposure

May cause damage to organs (Kidney) through prolonged or repeated exposure.

Components:

N-PHENYL-1-NAPHTHYLAMINE:

Target Organs	:	Kidney
Assessment	:	The substance or mixture is classified as specific target organ
		toxicant, repeated exposure, category 2.

Crystalline Quartz Silica:

Exposure routes	:	Inhalation
Target Organs	:	Lungs
Assessment	:	Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Paraffin oils (petroleum), catalytic dewaxed heavy:

	-	-
Species LOAEL Application Route Exposure time Number of exposures Dose GLP	:	Rat, male 125 mg/kg Oral 13 Weeks 5 days/week 0, 125, 500 mg/kg bw/day No information available.
Remarks	:	Based on data from similar materials
Species NOAEL Application Route Exposure time GLP Remarks	:	Rat, male and female >= 980 mg/m ³ Inhalation 4 Weeks No information available. Based on data from similar materials
Species NOAEL Application Route Exposure time Number of exposures Method GLP Remarks		Rat, male and female >= 2,000 mg/kg Dermal 13 Weeks 5 days/week OECD Test Guideline 411 No information available. Based on data from similar materials

1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:

Species	:	Rat
NOAEL	:	45 mg/kg
Application Route	:	Oral

ROYCO 49 MIL-DTL-23549

Revision Date:

09/22/2020



Date of last issue: -Country / Language: US / EN

Aspiration toxicity

Not classified based on available information.

SDS Number:

203000016239

Product:

Version

1.0

No aspiration toxicity classification

Further information

Product:

Remarks

: No data is available on the product itself.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

Remarks: No data available

Components:

Paraffin oils (petroleum), catalytic dewaxed heavy:

1

r aranni ons (per oleun), ca	alytic dewaxed liedvy.
Toxicity to fish	 LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l End point: mortality Exposure time: 96 h Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes Remarks: (WAF)
Toxicity to daphnia and other aquatic invertebrates	 EL50 (Daphnia magna (Water flea)): > 10,000 mg/l End point: Immobilization Exposure time: 48 h Analytical monitoring: no GLP: No information available. Remarks: Based on data from similar materials (WAF)
Toxicity to algae/aquatic plants	 EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 203 GLP: yes Remarks: (WAF)
	NOELR (Pseudokirchneriella subcapitata (green algae)): >



Vers 1.0	ion	Revision Date: 09/22/2020		S Number: 3000016239	Date of last issue: - Country / Language: US / EN
				100 mg/l End point: Growth Exposure time: 72 Method: OECD Te GLP: yes Remarks: (WAF)	2 h
	Toxicity to fish (Chronic tox- icity)		:	NOELR (Oncorhynchus mykiss (rainbow trout)): >= 1,000 End point: mortality Exposure time: 28 d Method: calculated GLP: no Remarks: The value is calculated	
		to daphnia and other invertebrates (Chron- ty)	:	NOEL (Daphnia m End point: Reproc Exposure time: 21 GLP: yes Remarks: water e	d
	sodium	n nitrite:			
	Toxicity		:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 0.54 - 26.3 mg/l 3 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	: EC50 (Desmodesmus subspicatus (green algae)): Exposure time: 72 h Method: OECD Test Guideline 201		2h
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Cyprinus of Exposure time: 29 Method: OECD Te Remarks: Fresh w	est Guideline 210
	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD Te	
	N-PHFI	NYL-1-NAPHTHYLAM	INF	-	
	Toxicity		:		hus mykiss (rainbow trout)): 0.44 mg/l እ h
				NOEC (Oncorhyn	chus mykiss (rainbow trout)): 0.34 mg/l
		to daphnia and other invertebrates	:	LC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 0.38 mg/l 3 h



rsion)	Revision Date: 09/22/2020		S Number: 3000016239	Date of last issue: - Country / Language: US / EN
			NOEC (Daphnia	a magna (Water flea)): 0.38 mg/l
Toxici plants	ity to algae/aquatic	:	EC50 (Desmode Exposure time:	esmus subspicatus (green algae)): 0.25 mg. 72 h
			EC50 (Green al Exposure time:	gae (Scenedesmus subspicatus)): > 0.2 mg 75 h
			NOEC (Green a	lgae (Scenedesmus subspicatus)): 0.2 mg/
Toxici	ty to microorganisms	:	EC50 (activated Exposure time:	sludge): 1,000 mg/l 3 h
1H-Be	enzotriazole-1-methana	amiı	ne, N,N-bis(2-eth	ylhexyl)-ar-methyl-:
Toxici	ty to fish	:		io (zebra fish)): 1.3 mg/l
			Exposure time: Method: OECD	Test Guideline 203
	ty to daphnia and other	:		magna (Water flea)): 1.93 mg/l
aquat	ic invertebrates		Exposure time: Method: OECD	48 h Test Guideline 202
Tovici	ty to algae/aquatic			lesmus subspicatus (green algae)): 0.976 n
plants		•	Exposure time:	
			Exposure time:	esmus subspicatus (green algae)): 0.658 m 72 h Test Guideline 201
Toxici	ty to microorganisms	:	EC50 (Bacteria)	
			Exposure time: Method: OECD	3 h Test Guideline 209
Persi	stence and degradabili	itv		
Produ	-	,		
	gradability	:	Result: No data	available
<u>Comp</u>	oonents:			
sodiu	m nitrite:			
Biode	gradability	:		hods for determining the biological degrada cable to inorganic substances.
N-PH	ENYL-1-NAPHTHYLAM	IINE	:	
Biode	gradability	:	Biodegradation:	lily biodegradable. 0 % Test Guideline 301C
			18 / 2	





/ersion I.0	Revision Date: 09/22/2020		DS Number: 03000016239	Date of last issue: - Country / Language: US / EN
			•	thylhexyl)-ar-methyl-:
Βιοαεί	gradability	:	Biodegradation Exposure time	y biodegradable. n: 94.4 %
Bioac	cumulative potential			
Produ	ict:			
Bioaco	cumulation	:	Remarks: No o	lata available
<u>Comp</u>	onents:			
N-PHE	ENYL-1-NAPHTHYLA	MIN	Ξ:	
	on coefficient: n- bl/water	:	log Pow: 4.28	
Mobili	ity in soil			
	ta available			
Other	adverse effects			
<u>Produ</u>	ict:			
Addition mation	onal ecological infor- ו	:		atic organisms, may cause long-term adverse quatic environment.
SECTION '	13. DISPOSAL CONS	IDEF	RATIONS	
Dispo	sal methods			

RCRA - Resource Conserva- : If discarded in its purchased form, this product would not be a tion and Recovery Authorizahazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to tion Act determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24) Waste from residues The generation of waste should be avoided or minimized : wherever possible. This material and its container must be disposed of in a safe way. Empty containers retain product residue; observe all precautions for product. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.





VersionRevision Date:SDS Number:Date of last issue: -1.009/22/2020203000016239Country / Language: US / EN

Contaminated packaging

: Empty remaining contents. Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not regulated as a dangerous good Remarks : Not dangerous cargo, Keep separated from foodstuffs

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
sodium nitrite	7632-00-0	100	2500
1-naphthylamine	134-32-7	100	*
2-naphthylamine (Solid)	91-59-8	10	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	Respiratory or skin sensitisation Specific target organ toxicity (single or repeated exposure) Carcinogenicity			
SARA 313	The following components are subject to reporting levels established by SARA Title III, Section 313:			
	sodium nitrite	7632-00-0	>= 1 - < 5 %	
US State Regulations				
Massachusetts Right To Know	w			
Paraffin oils (petroleu molybdenum disulphi	, · · ·	d heavy 64742-70-7 1317-33-5	70 - 90 5 - 10	



ROYCO 49 MIL-DTL-23549

Version 1.0	Revision Date: 09/22/2020	SDS Number: 203000016239	20.10 0.	last issue: - / Language: US / El	N	
	sodium nitrite graphite Crystalline Quartz aniline 1-naphthylamine	Silica		7632-00-0 7782-42-5 14808-60-7 62-53-3 134-32-7	1 - 5 1 - 5 0.1 - 1 < 0.01 < 0.001	
Pennsylvania Right To Know						
	Paraffin oils (petroleum), catalytic dewaxed heavy Proprietary ammonium compound Proprietary Component molybdenum disulphide sodium nitrite graphite Proprietary Barium Compounds			64742-70-7 Trade Secret Trade Secret 1317-33-5 7632-00-0 7782-42-5 Trade Secret	70 - 90 > 1 > 1 5 - 10 1 - 5 1 - 5 <= 0.5	

California Prop. 65

WARNING: This product can expose you to chemicals including Crystalline Quartz Silica, aniline, 1naphthylamine, 2-naphthylamine (Solid), which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

TSCA inventory

TSCA

: All substances listed as active on the TSCA inventory, This product is subject under TSCA 5(a) to Significant New Use Restrictions (SNUR).

TSCA list

The following substance(s) is/are subject to a Significant New Use Rule: sodium nitrite 7632-00-0

The following substance(s) is/are subject to TSCA 12(b) export notification requirements: sodium nitrite 7632-00-0

SECTION 16. OTHER INFORMATION

Further information

Version

1.0

ROYCO 49 MIL-DTL-23549

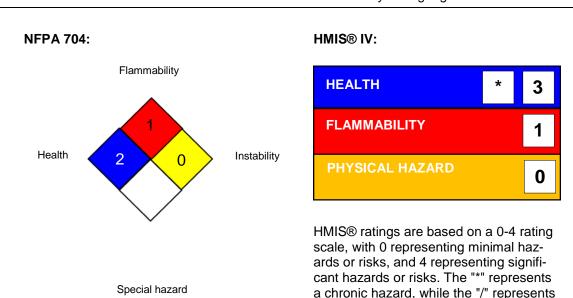
Revision Date:

09/22/2020



Date of last issue: -Country / Language: US / EN

the absence of a chronic hazard.



SDS Number:

203000016239

Special hazard

Full text of other abbreviations

ACGIH OSHA CARC OSHA Z-1	: :	USA. ACGIH Threshold Limit Values (TLV) OSHA Specifically Regulated Chemicals/Carcinogens USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
OSHA CARC / PEL	:	Permissible exposure limit (PEL)
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DOT - Department of Transportation: DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice: HMIS - Hazardous Materials Identification System: IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization: IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Associa-



ROYCO 49 MIL-DTL-23549

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/22/2020	203000016239	Country / Language: US / EN

tion; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date

: 09/22/2020

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.