

Revision: 05/18/2019

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	Section 1 In	dentification of the Substance/Mixture and of th	e Company/Undertaking				
4			e company, ondertaking				
1	Product Code: Product Name:	26718 Nonanoic Acid					
			ISC 65450: NSC 65455: Delargonia Acid:				
_	Synonyms: C9:0; Nonoic Acid; Nonylic Acid; NSC 62787; NSC 65450; NSC 65455; Pelargonic Acid;						
2	Relevant identified uses of the substance or mixture and uses advised against:Relevant identified uses:For research use only, not for human or veterinary use.						
	Relevant identified uses:	For research use only, not for human or veterin	ary use.				
3	Details of the Supplier of the Safety Data Sheet:						
	Company Name:	Cayman Chemical Company					
		1180 E. Ellsworth Rd. Ann Arbor, MI 48108					
	Web site address:	www.caymanchem.com					
	Information:	Cayman Chemical Company	+1 (734)971-3335				
1	Emergency telephone num						
•	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
	Emergency contact.	CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identifica	ation				
-							
1	Classification of the Substa Skin Corrosion/Irritation, Serious Eye Damage/Eye Aquatic Toxicity (Chronic Label Elements:	Category 2 Irritation, Category 2					
	Skin Corrosion/Irritation, Serious Eye Damage/Eye Aquatic Toxicity (Chronic	Category 2 Irritation, Category 2					
	Skin Corrosion/Irritation, Serious Eye Damage/Eye Aquatic Toxicity (Chronic Label Elements:	Category 2 e Irritation, Category 2 c), Category 3 Warning					
	Skin Corrosion/Irritation, Serious Eye Damage/Eye Aquatic Toxicity (Chronic Label Elements: GHS Signal Word: GHS Hazard Phrases:	Category 2 e Irritation, Category 2 c), Category 3 Warning					
	Skin Corrosion/Irritation, Serious Eye Damage/Eye Aquatic Toxicity (Chronic Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation	Category 2 e Irritation, Category 2 c), Category 3 Warning n. irritation.					
	Skin Corrosion/Irritation, Serious Eye Damage/Eye Aquatic Toxicity (Chronic Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye	Category 2 e Irritation, Category 2 c), Category 3 Warning n. irritation. fe with long lasting effects.					
	Skin Corrosion/Irritation, Serious Eye Damage/Eye Aquatic Toxicity (Chronic Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H412: Harmful to aquatic li GHS Precaution Phrases P264: Wash {hands} thorow	Category 2 e Irritation, Category 2 c), Category 3 Warning n. irritation. fe with long lasting effects. : ughly after handling.					
	Skin Corrosion/Irritation, Serious Eye Damage/Eye Aquatic Toxicity (Chronic Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H412: Harmful to aquatic li GHS Precaution Phrases P264: Wash {hands} thorow P273: Avoid release to the	Category 2 e Irritation, Category 2 c), Category 3 Warning n. irritation. fe with long lasting effects. : ughly after handling. environment.					
	Skin Corrosion/Irritation, Serious Eye Damage/Eye Aquatic Toxicity (Chronic Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H412: Harmful to aquatic li GHS Precaution Phrases P264: Wash {hands} thorow P273: Avoid release to the P280: Wear {protective glo	Category 2 e Irritation, Category 2 c), Category 3 Warning n. irritation. fe with long lasting effects. : ughly after handling. environment. ves/protective clothing/eye protection/face protection	on}.				
	Skin Corrosion/Irritation, Serious Eye Damage/Eye Aquatic Toxicity (Chronic Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H412: Harmful to aquatic li GHS Precaution Phrases P264: Wash {hands} thorow P273: Avoid release to the P280: Wear {protective glo GHS Response Phrases: P302+352: IF ON SKIN: W	Category 2 e Irritation, Category 2 c), Category 3 Warning n. irritation. fe with long lasting effects. : ughly after handling. environment. ves/protective clothing/eye protection/face protection					
	Skin Corrosion/Irritation, Serious Eye Damage/Eye Aquatic Toxicity (Chronic Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H412: Harmful to aquatic li GHS Precaution Phrases P264: Wash {hands} thorow P273: Avoid release to the P280: Wear {protective glo GHS Response Phrases: P302+352: IF ON SKIN: W	Category 2 e Irritation, Category 2 c), Category 3 Warning n. irritation. fe with long lasting effects. : ughly after handling. environment. wee/protective clothing/eye protection/face protection /ash with plenty of soap and water.					
	Skin Corrosion/Irritation, Serious Eye Damage/Eye Aquatic Toxicity (Chronic Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H412: Harmful to aquatic li GHS Precaution Phrases P264: Wash {hands} thorou P273: Avoid release to the P280: Wear {protective glo GHS Response Phrases: P302+352: IF ON SKIN: W P305+351+338: IF IN EYE to do. Continue rinsing.	Category 2 e Irritation, Category 2 c), Category 3 Warning n. irritation. fe with long lasting effects. : ughly after handling. environment. wee/protective clothing/eye protection/face protection /ash with plenty of soap and water.					
	Skin Corrosion/Irritation, Serious Eye Damage/Eye Aquatic Toxicity (Chronic Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H412: Harmful to aquatic li GHS Precaution Phrases P264: Wash {hands} thorou P273: Avoid release to the P280: Wear {protective glo GHS Response Phrases: P302+352: IF ON SKIN: W P305+351+338: IF IN EYE to do. Continue rinsing. P332+313: If skin irritation	Category 2 e Irritation, Category 2 c), Category 3 Warning n. irritation. fe with long lasting effects. : ughly after handling. environment. ves/protective clothing/eye protection/face protection /ash with plenty of soap and water. S: Rinse cautiously with water for several minutes.					
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	Skin Corrosion/Irritation, Serious Eye Damage/Eye Aquatic Toxicity (Chronic Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H412: Harmful to aquatic li GHS Precaution Phrases P264: Wash {hands} thorou P273: Avoid release to the P280: Wear {protective glo GHS Response Phrases: P302+352: IF ON SKIN: W P305+351+338: IF IN EYE to do. Continue rinsing. P332+313: If skin irritation P337+313: If eye irritation	Category 2 e Irritation, Category 2 c), Category 3 Warning n. irritation. fe with long lasting effects. : ughly after handling. environment. ves/protective clothing/eye protection/face protection /ash with plenty of soap and water. S: Rinse cautiously with water for several minutes. occurs, get medical advice/attention. persists, get medical advice/attention. innated clothing and wash it before reuse.					

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Effec CAS # / RTECS # 112-05-0 RA6650000 I.1 Desc Meas In Ca In Ca	Section of First Aid asures: Case of Skin Contact: Case of Eye Contact:	Section 4. Fir Remove to fresh air. If not bre	ng lasting effects. he mucous membr , ingestion, or skin n irritation. e, the toxicological /Information Concentration 100.0 % rst Aid Meas	absorption. properties have no on Ingredie EC No./ EC Index No. 203-931-2 607-197-00-8	t been thoroughly investigate			
CAS # / RTECS # 112-05-0 RA6650000 k.1 Desc Meas In Ca In Ca	Section of First Aid asures: Case of Skin Contact:	Harmful to aquatic life with lon Material may be irritating to the May be harmful by inhalation, May cause respiratory system To the best of our knowledge ion 3. Composition, onents (Chemical Name)/ ion No. Section 4. Fir Remove to fresh air. If not bree	ne mucous membr , ingestion, or skin n irritation. , the toxicological /Information Concentration 100.0 %	absorption. properties have no on Ingredie EC No./ EC Index No. 203-931-2 607-197-00-8	at been thoroughly investigate     ents     GHS Classification     Skin Corr. 2: H315     Eye Damage 2: H319			
RTECS # 112-05-0 RA6650000 I.1 Desc Meas In Ca In Ca	Section Hazardous Compo REACH Registration Nonanoic acid 01-2119529247-37 Scription of First Aid asures: Case of Inhalation: Case of Skin Contact: Case of Eye Contact:	Material may be irritating to the May be harmful by inhalation, May cause respiratory system To the best of our knowledge ion 3. Composition, onents (Chemical Name)/ ion No. Section 4. Fir Remove to fresh air. If not bree	ne mucous membr , ingestion, or skin n irritation. , the toxicological /Information Concentration 100.0 %	absorption. properties have no on Ingredie EC No./ EC Index No. 203-931-2 607-197-00-8	at been thoroughly investigate     ents     GHS Classification     Skin Corr. 2: H315     Eye Damage 2: H319			
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RTECS # 112-05-0 RA6650000 I.1 Desc Meas In Ca In Ca	REACH Registration     Nonanoic acid     01-2119529247-37     Scription of First Aid     asures:     Case of Inhalation:     Case of Skin Contact:     Case of Eye Contact:	ion No. Section 4. Fir Remove to fresh air. If not bre	100.0 %	EC Index No. 203-931-2 607-197-00-8	Skin Corr. 2: H315 Eye Damage 2: H319			
112-05-0 RA6650000 I.1 Desc Meas In Ca In Ca	Nonanoic acid 01-2119529247-37 Scription of First Aid asures: Case of Inhalation: Case of Skin Contact:	Section 4. Fir Remove to fresh air. If not bre	rst Aid Meas	203-931-2 607-197-00-8	Eye Damage 2: H319			
RA6650000 I.1 Desc Meas In Ca In Ca	01-2119529247-37 scription of First Aid asures: Case of Inhalation: Case of Skin Contact:	Remove to fresh air. If not bre	rst Aid Meas	607-197-00-8	Eye Damage 2: H319			
I.1 Desc Mea: In Ca In Ca	Scription of First Aid asures: Case of Inhalation: Case of Skin Contact:	Remove to fresh air. If not bre						
Meas In Ca In Ca In Ca	asures: Case of Inhalation: Case of Skin Contact: Case of Eye Contact:	Remove to fresh air. If not bre		sures	Aquatic (C) 3: H412			
Meas In Ca In Ca In Ca	asures: Case of Inhalation: Case of Skin Contact: Case of Eye Contact:	Remove to fresh air. If not bre		sures				
Meas In Ca In Ca In Ca	asures: Case of Inhalation: Case of Skin Contact: Case of Eye Contact:		eathing, give artific					
In Ca In Ca In Ca	Case of Inhalation: Case of Skin Contact: Case of Eye Contact:		eathing, give artific					
In Ca	Case of Skin Contact: Case of Eye Contact:		eathing, give artific					
In Ca	Case of Skin Contact: Case of Eye Contact:	Get immediate medical attent		ial respiration or given	ve oxygen by trained personr			
In Ca	Case of Eye Contact:		Get immediate medical attention.					
	Case of Eye Contact:	Immediately wash skin with so	oap and plenty of	water for at least 15	5 minutes. Remove contamin			
	-	clothing. Get medical attention if symptoms occur. Wash clothing before reuse.						
In Ca		Hold eyelids apart and flush e	eyes with plenty of	water for at least 1	5 minutes. Have eyes exami			
In Ca		and tested by medical person	inel.					
	Case of Ingestion:	Wash out mouth with water pr	rovided person is a	conscious. Never g	ive anything by mouth to an			
	-	unconscious person. Get mec	-	-				
		medical personnel.	с , , , , , , , , , , , , , , , , , , ,					
			Fighting Me					
4 6	Section 5. Fire Fighting Measures       Suitable Extinguishing     Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.							
					spray.			
	Media: Use water spray to cool fire-exposed containers.							
	<b>Unsuitable Extinguishing</b> A solid water stream may be inefficient.							
Med	dia:							
5.2 Flam		Flammable Properties and No data available.						
	mmable Properties and							
Haza	mmable Properties and zards:							
Haza	zards:	No data available.						
	zards:	No data available. No data.						
Flas	zards:	No data.	UEL: No	data.				
Flas Expl	zards: sh Pt: blosive Limits:	No data. LEL: No data.	UEL: No	data.				
Flas Expl Auto	zards: sh Pt: blosive Limits: coignition Pt:	No data. LEL: No data. No data.			emand (NIOSH approved or			
Flas Expl Auto	zards: sh Pt: blosive Limits: coignition Pt: e Fighting Instructions:	No data. LEL: No data.	ained breathing ap	paratus pressure-d				



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		Section 6. Accidental Release Measures				
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.				
	Protective Equipment and	As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,				
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).				
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.				
	Precautions:					
6.3	Methods and Material For	Contain spill and collect, as appropriate.				
	Containment and Cleaning	Transfer to a chemical waste container for disposal in accordance with local regulations.				
	Up:					
		Section 7. Handling and Storage				
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.				
	in Handling:	Avoid prolonged or repeated exposure.				
7.2	Precautions To Be Taken	Keep container tightly closed.				
	in Storing:	Store in accordance with information listed on the product insert.				
	Secti	on 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					
8.2	Exposure Controls:					
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	(Ventilation etc.):	levels below recommended exposure limits.				
8.2.2	Personal protection equip	ment:				
	Eye Protection:	Safety glasses				
	Protective Gloves:	Compatible chemical-resistant gloves				
	Other Protective Clothing:Lab coat					
	Respiratory Equipment	<b>y Equipment</b> NIOSH approved respirator, as conditions warrant.				
	Work/Hygienic/Maintenan	Do not take internally.				
	<b>ce Practices:</b> Facilities storing or utilizing this material should be equipped with an eyewash and a safety sh Wash thoroughly after handling.					
		No data available.				
	Se	ction 9. Physical and Chemical Properties				
9.1	Information on Basic Physi	cal and Chemical Properties				
	Physical States:	[]Gas [X]Liquid []Solid				
	Appearance and Odor:	A neat oil				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	No data.				
	Evaporation Rate:	No data.				
	Flammability (solid, gas):	No data available.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Vapor Pressure (vs. Air or	mm No data.				
	Hg): Vapor Density (vs. Air = 1)	No data.				
	vapor Density (vs. Alf = 1)					
		Multi-region forma				



	Specific Gravity (Water =	•	No data. No data. ~2.5 mg/ml in chloroform;						
	Solubility in Water:								
	Solubility Notes:	~2.5 mg/ml in chloroform;							
	Octanol/Water Partition	No data.							
	Coefficient:								
	Autoignition Pt:	No data.							
	Decomposition Temperat	ure: No data.							
	Viscosity:	No data.							
9.2	Other Information								
	Percent Volatile:	No data.							
	Molecular Formula & Weig	ght: C9H18O2 158.2							
		Section 10. Stability	and Reactiv	vitv					
10.1	Reactivity:	No data available.		,					
10.2	Stability:	Unstable [ ] Stable [ X ]							
10.3	Stability Note(s):	Stable if stored in accordance with in	formation listed (	on the product	insort				
10.5	Polymerization:	Will occur [ ] Will not occur [ X ]			insert.				
	2								
10.4									
<b>10.5</b> Incompatibility - Materials strong oxidizing agents									
	To Avoid:								
10.6	Hazardous	carbon dioxide							
	Decomposition or	carbon monoxide							
	Byproducts:								
		Section 11. Toxicologi	cal Informa	ation					
11.1	Information on	The toxicological effects of this produ	ict have not beer	thoroughly st	udied.				
	Toxicological Effects:	Nonanoic Acid - Toxicity Data: Oral LD50 (rat): 5000 mg/kg; Oral LD50 (mouse): 5000 mg/kg; Nonanoic Acid - Investigated as an agricultural chemical, mutagen, primary irritant, and reproductive effector.							
	Chronic Toxicological								
	Effects:								
		Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.							
		See actual entry in RTECS for comp	ete information.						
		Nonanoic Acid RTECS Number: RA6	650000						
CAS #	# Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA			
112	2-05-0 Nonanoic acid		n.a.	n.a.	n.a.	n.a.			
	ł	Section 12. Ecologic	al Informat	ion		<b> </b>			
12.1	Toxicity:	Avoid release into the environment.							
		Runoff from fire control or dilution wa	ter may cause po	ollution.					
12.2	Persistence and	No data available.	.,,						
12.2	Degradability:								
10.0		No data available							
12.3	Bioaccumulative Potential:	No data available.							
12.4	Mobility in Soil:	No data available.							
12.5	Results of PBT and vPvB	No data available.							
	assessment:								
12.6	Other adverse effects:	No data available.							

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		Section 13. Dispos	sal Considerat	ions			
<b>13.1 Waste Disposal Method:</b> Dispose in accordance with local, state, and federal regulations.							
Section 14. Transport Information							
14.1 LAND							
DOT Prop	er Shipping Name	Not dangerous goods.					
DOT Haza							
UN/NA Nu		opean ADR/RID): Not dangerous goods.					
	TRANSPORT (Eur						
ADR/RID UN Numb	Shipping Name:						
Hazard Cl							
	ANSPORT (ICAO	/IATA):					
	A Shipping Name:						
Additional Tra		Transport in accordance with lo	cal, state, and federa	l regulations.			
Information:				-			
		Section 15. Regul	latory Informa	tion			
EPA SARA (S	uperfund Amendr	nents and Reauthorization Act	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
112-05-0	Nonanoic acid		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	I Name) Other US EPA or State Lists				
112-05-0	Nonanoic acid		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -				
			Inventory; CA PROP.65: No				
Regulatory Int	formation	This SDS was prepared in acco No.1272/2008.	ordance with 29 CFR	1910.1200 and Regul	ation (EC)		
Statement:				•			
		Section 16. Oth	ier mormation	1			
Revision Date		05/18/2019					
	ormation About	No data available.					
This Product: Company Poli	cy or Disclaimer:	DISCLAIMER: This information	is believed to be accu	irate and represents	the best information		
		currently available to us. Howev		•			
		express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for					
		their particular purposes.					