

INDOFIL CHEMICALS COMPANY

KOLSHET, OFF SWAMI VIVEKANAND ROAD, AZAD NAGAR, SANDOZ BAUG P.O.,

THANE – 400 607. MAHARASHTRA (INDIA)

TEL. NO.: 00-91-22-6799 9100 FAX NO.: 00-91-22-2589 83 57 / 59

MATERIAL SAFETY DATA SHEET

2-R&D-MSDS- AGRO-FP- 434

SECTION 1.	PRODUCT IDENTIFICAT	TON
Chemical Name	Flash	Company Identification INDOFIL CHEMICALS COMPANY
	Quinalphos 25% EC	KOLSHET,OFF SWAMI VIVEKANAND ROAD, AZAD NAGAR, SANDOZ BAUG P.O., THANE – 400 607. MAHARASHTRA (INDIA) TEL. NO.: 00-91-22-6799 9100 FAX NO.: 00-91-22-2589 83 57 / 59
Trade Name	Flash 25% EC	
Synonyms	Quinalphos	Chemical classification: Organophosphorus Compound
IUPAC	O, O-diethyl-O-quinoxanil-2-yl phosphorothioate	
CAS Number	13593-03-8	
Formula	C ₁₁ H ₁₀ O ₃ N ₂ S	

SECTION 2. COMPOSITION / INFORMATION OF INGREDIENTS

COMPONENT NAME	CAS REGISTRY NO	CONCENTRATION
Quinalphos	13593-03-8	25%
Emulsifiers	13593-03-8	
Solvent		

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Rev: 0 MSDS: Quinalphos

SECTION 3. HA	ZARDS II	DENTIFICATION	
EMERGENCY OVERVIEW Physical state : Liquid Colour : Yellow colour EC Odor threshold : Mild odour Harmful or fatal if swallowed - can enter lungs and cause damage Contact can cause eye or skin irritation			
IMMEDIATE HEALTH	H EFFECTS		
Eye contact	Flush eyes wi	ith plenty of water for at least 15 minutes and see a doctor	
Skin contact		aminated clothes, wash skin with soap and water	
Ingestion		dilute by giving 2 glasses of water to drink and call a doctor. mouth to an unconscious person	
Inhalation		to fresh air and rest	
DELAYED OR OTHE	•		
Target organs			
	es not exhibit tl	rd title indicates OSHA Hazard classification. If no "X" is he hazard as defined in the OSHA Hazard Communication	
OSHA Health Hazard C		OSHA Physical Hazard Classification	
Toxic Hig	ghly Toxic	Flammable X Oxidizer	
Irritant	Sensitizer	Combustible X	
Corrosive C	arcinogenic	Explosive Organic Peroxide	
		Pyrophoric unstable	
		Organic peroxide water-reactive	

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SECTION 4 : FIR	ST AID MEASURES
Eye	Flush yes with plenty of water for at least 15 minutes and see doctor
Skin	Remove contaminated clothes, wash skin with soap and water
Ingestion	If swallowed dilute by giving 2 glasses of water to drink and call a doctor.
_	Never give by mouth to an unconscious person.
Inhalation	Move subject to fresh air and rest.
Notes to physician	

SECTION 5: FIRE	FIGHTING MEASURES		
NFPA Flammability			
Classification			
NFPA RATINGS	Health: 1 Flammability:1 Reactivity: 1		
OSHA classification			
Flash point	26°C (Open Cup)		
Flash point	Min 43°C (Closed Cup)		
Flammability			
(Explosive limits)			
Auto ignition			
Temperature			
Hazardous	Produces Sulfur dioxide and trioxide		
Combustion			
products			
Extinguishing Media	Dry chemical powder, CO ₂ , Water, Water spray		
Protection of Fire	Wear NIOSH / MSHA approved self-contained breathing apparatus and		
Fighters	full protective clothing.		
Special Properties	Use water spray to cool containers, wear self-contained breathing		
	apparatus.		
Unusual Hazards	Fire produces toxic and flammable products: Hydrogen sulfide, CS ₂ , Oxides of Sulfur, Nitrogen and Carbon		
SECTION 6 : ACC	IDENTAL RELEASE MEASURES		
Protective	Eliminate all sources of ignition in the vicinity of the spill. If this material		
Measures	is released into the work area, evacuate the area immediately.		
Spill Management	Steps to be taken: Eliminate ignition source. Ventilate area. Contain liquid spill with inert material (sand, earth, etc.). Scoop or shovel solid material into a suitable container. Keep dust to minimum. Flush cleaned area with water to a chemicals sewer. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.		

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SECTION 7: HAN	IDLING AND STORAGE
Handling	A spill can cause an immediate fire or explosion hazard. Keep containers closed and do not handle or store near heat, sparks or any other potential ignition sources. Use only with adequate ventilation and personal protection. Avoid contact with eyes, skin, and clothing. Prevent contact with food and tobacco products. Do not reuse empty bag When performing repairs and maintenance on contaminated equipment, Keep unnecessary persons away from area. Eliminate all potential ignition sources. Use gloves constructed of impervious materials and protective clothing if direct contact is anticipated. Provide adequate ventilation. Promptly remove contaminated clothing. Wash exposed skin thoroughly with soap and water after handling.
Storage	Store in a dry shaded, well ventilated area. Do not allow it to become wet or over heated in storage because degradation of the material may occur and fire may result. Provide plenty to ventilation to dissipate heat.

SECTION 8: EX	XPOSURE CONTROLS / PERSONAL PROTECTION
Engineering controls	Provide exhaust ventilation or other engineering controls. An emergency eye wash station and safety shower should be located near the work-station.
Personal Protective Equipment	Eye Protection: Wear eye protection such as safety glasses, chemical goggles, or face shields if engineering controls or work practices are not adequate to prevent eye contact. Contact lenses should not be worn when working with this chemical.
	Hand protection: Avoid skin contact. Use gloves. Wash hands with plenty of mild soap and water before eating, drinking, use of toilet facilities or leaving work. Body protection: Avoid skin contact. Wear long-sleeved fire-retardant garments. Additional chemical-resistant protective gear may be required. This may include an apron, boots and additional facial protection. Respiratory Protection: Dust / mist filtering respirator or a NIOSH approved respirator. Work practices: users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing. Deluge safety shower and eye wash station should be located in work area.

Occupational exposure limits

Component	Limit	
Quinalphos	NA	
Emulsifiers	NA	
Solvent	NA	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Physical state	Liquid	Appearance	Green Coloured Liquid
Odor	Malodorous , weak	PH	5.0 - 6.0
Specific gravity (water=1)	0.97 – 1.0	Solubility in water	Emulsifiable
Vapor pressure @ (mm Hg)		Vapor density (air=1)	> 1
Viscosity		Boiling point (°C)	156-232
Melting point	No data		

SECTION 10: STABILITY AND REACTIVITY		
Chemical stability	Stable	
Conditions to Avoid	Keep dry and avoid excessive heat and ignition sources.	
Material Incompatibility	Oxidizing material	
Hazardous Decomposition Products	Data not available	
Hazardous Polymerization	Data not available	

SECTION 11: TOXICOLOGICAL INFORMATION		
Acute Oral toxicity	LD 50 (Oral-Rat) – 71 mg/Kg	
Acute Dermal toxicity		
Acute Inhalation toxicity		
Eye irritation: This material is irritating to the eyes		
Skin irritation: This material is irritating to the skin		

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SECTION 12:ECOLOGICAL INFORMATION		
Ecotoxicity	Contamination of both terrestrial and marine environments should be avoided.	
Environmental fate	No data	

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate in approved equipment in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION					
	Not regulated as a hazardous material by any mode of transportation. It is not a marine pollutant. Export water (IMO): Not regulated Air (ICAO / IATA): Not regulated				
DOT Shipping Name	Not regulated				
DOT Hazard class	Not regulated				
DOT identification number	No data				
DOT packing Group	No data				
DOT additional information	No data				

SECTION 15: REGULATORY INFORMATION				
TSCA Inventory	No data			
SARA 311/312 Hazard Identification	Immediate (acute) health effects: yes Delayed (chronic) health effects: yes Reactive: yes This product contains the substances subject to the reporting requirements of SARA title 3, section 313 and 40 CFR part 372.			
SARA 302/304 Emergency planning and notification	No data			
SARA 313 Toxic chemical notification and Release reporting	This product contains the following components in concentrations above that are listed as toxic chemicals in 40 CFR part 372 pursuant to the requirements of section 313 of SARA.			
CERCLA	No data			
Clean air act (CAA)	Not applicable			

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SECTION 16: OTHER INFORMATION							
NFPA RATINGS	FPA RATINGS Health: 1 Flammab		Reactivity:1				
HMIS RATINGS	Health : 1	Flammability :1	Reactivity :1				
	0 = Least 1= slight 2= Moderate 3= High 4=Extreme						

ABBREVIATIONS

STEL	Short term exposure limit
ACGIH	American conference of Government Industrial Hygienists
NIOSH	National institute of safety and health
SARA	Super fund Amendments and Reauthorization Act
TWA	Time weighted average
OSHA	Occupational safety and health
NFPA	National Fire protection agency
HMIS	Hazardous Materials information system
RCRA	Resource conservation Recovery act
TSCA	Toxic substance Control Act
WHMIS	Work place Hazardous Materials information system
IRAC	International Agency for Research on Cancer

MANUFACTURE'S / SUPPLIER'S DATA

MANOLAGIONE OF COLLECT O DATA						
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Local Bodies Involved	Collector of Ti	hane				

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