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Important: read this MSDS before handling and disposing of this product and pass this information on to employees, customers and users of this product.

Infotrac 24 hour emergency telephone number: 1-800-535-5053

SECTION I PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TAEC 090
PRODUCT CATEGORY Ink Product

SECTION II HAZARDS IDENTIFICATION

This product is a preparation. Health hazard information is based on its components

Appearance: colored liquid

Flammable properties: extremely flammable liquid and vapor. Vapor may cause flash fire.

Emergency overview: irritant. May cause drowsiness and dizziness.

Eyes: moderately irritating to the eyes.

Skin: may cause skin irritation and or dermatitis.

Inhalation: may cause irritation of respiratory tract. Inhalation of high vapor concentrations may

cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Ingestion: ingestion may cause gastrointestinal irritation, nausea vomiting and diarrhea.

SECTION III COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS/number	weight %
acetone	67– 64–1	30 - 60
titanium dioxide	13463–67–7	10 - 30
ethyl alcohol	64–17–5	5 – 10
ethyl acetate	141–78– 6	5 – 10

SECTION IV FIRST AID MEASURES

Eye Contact: immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

Skin Contact: wash off immediately with soap and plenty of water. Use a mild soap if available. Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation develops, get medical attention.

Inhalation: if breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

Ingestion: if swallowed, DO NOT INDUCE VOMITING. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION V FIREFIGHTING MEASURES

Flammable Properties: extremely flammable liquid and vapor. Vapor may cause flash fire. **Suitable Extinguishing Media**: foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. **Protective Equipment And Precautions For Firefighters**: as in any fire, were self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective

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gear. Keep away from fire, sparks and heated surfaces. Cool containers/tanks with water spray. Fire or intense heat may cause violent rupture of packages.

Specific Hazards Arising From The Chemical: thermal decomposition can lead to release of irritating gases and vapors. Burning produces obnoxious and toxic fumes. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

SECTION VI ACCIDENTAL RELEASE MEASURES

Personal Precautions: remove all sources of ignition. Ventilate the area. Avoid breathing dust or vapor. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Methods For Cleaning Up: contain spillage, soak up with noncombustible absorbent material, (e.g. Sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13). Do not use sparking tools.

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.

SECTION VII HANDLING AND STORAGE

Handling: avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove and wash contaminated clothing before reuse. Discard contaminated shoes. When using do not smoke. Do not take internally. Harmful or fatal if swallowed. Take notice of the directions of use on the label. **Storage:** keep containers tightly closed in a dry, cool and well ventilated place. Keep container closed when not in use. Keep out of the reach of children. Keep away from heat and sources of ignition.

SECTIONVIII EXPOSURE CONTROLS/PERSONAL PROTECTION

exposure limits

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Ontario TWAEV	Mexico OEL (TWA)
Acetone	TWA: 500 ppm STEL: 750 ppm	TWA: 750 ppm TWA: 1800 mg/m ₃ STEL: 2400 mg/m ₃ STEL: 1000 ppm TWA: 1000 ppm TWA: 2400 mg/m ₃	2500 ppm (10% LEL)	TWA: 500 ppm STEL: 750 ppm	TWA/LMPE-PPT: 1000 ppm TWA/LMPE-PPT: 2400 mg/m ₃ STEL/LMPE-CT: 1260 ppm STEL/LMPE-CT: 3000 mg/m ₃
Titanium dioxide	TWA: 10 mg/m ₃	TWA: 10 mg/m ₃ (total dust) TWA: 15 mg/m ₃ (total dust)	5000 mg/m ₃	TWA: 10 mg/m ₃ (total dust)	TWA/LMPE-PPT: 10 mg/m₃ (as Ti) STEL/LMPE-CT: 20 mg/m₃ (as Ti)
Ethyl alcohol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ₃	3300 ppm (10% LEL)	STEL: 1000 ppm	TWA/LMPE-PPT: 1000 ppm TWA/LMPE-PPT: 1900 mg/m ₃
Ethyl acetate	TWA: 400 ppm	TWA: 400 ppm TWA: 1400 mg/m ₃	2000 ppm (10% LEL)	TWA: 400 ppm	TWA/LMPE-PPT: 400 ppm TWA/LMPE-PPT: 1400 mg/m ₃

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Engineering Measures: use ventilation adequate to keep exposures below recommended exposure limits. In case of/ or insufficient ventilation, wear suitable respiratory equipment.

Personal Protective Equipment

Respiratory Protection: use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Respirator with a vapor filter.

Eye Protection: ensure that eyewash stations and safety showers are close to the workstation location. Avoid contact with eyes. Safety glasses with side shields. Goggles. Faceshield.

Skin Protection: wear protective gloves/clothing. Solvent resistant apron and boots.

General Hygiene Considerations: handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, or smoking. Remove and wash contaminated clothing before reuse. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended.

SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colored liquid

Physical State Liquid

Odor Characteristic

Odor Threshold
pH
No information available
No information available
No information available

Boiling point/Boiling Range >149 °C / >300 °F

Melting Point/RangeNo information availableFreezing Point/RangeNo information availableSolubilityNo information availableEvaporation RateNo information availablePartition Coefficient (noctanol/water)No information availableVapour PressureNo information available

Vapour Density Heavier than air

Flammability (solid, gas)

Flammability Limits in Air Upper

Lower

No information available
No information available
No information available

Flash Point -20 °C / -4 °F Method Closed cup

Photochemically Reactive

Weight Per Gallon (lbs/gal)

Specific Gravity

VOC by weight % (less water)

VOC by volume % (less water)

VOC lbs/gal (less water)

5.75

VOC lbs/gal as defined by SCAQMD Rule 1171 = 3.96

VOC grams/liter (less water) 688.93

VOC grams/liter as defined by SCAQMD Rule 1171 = 473.94

SECTION X STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Conditions to Avoid Heat, flames and sparks.

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Incompatible Products Strong acids. Strong bases. Strong oxidizing agents.

Reducing agents.

Hazardous Decomposition Products

Thermal decomposition can lead to release of

irritating gases and vapours. Carbon dioxide (CO2). Carbon monoxide. None under normal processing

Possibility of Hazardous Reactions None under norma

SECTION XI TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetone	5800 mg/kg (Rat)		
Titanium dioxide	>10000 mg/kg (Rat)		
Ethyl alcohol	7060 mg/kg (Rat)		124.7 mg/L (Rat) 4 h
Ethyl acetate	5620 mg/kg (Rat)	>18000 mg/kg (Rabbit)	
		>20 mL/kg (Rabbit)	

Chronic Toxicity

Component	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X

IARC: (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans

OSHA: (Occupational Safety & Health Administration) X - Present

SensitisationNo information availableMutagenic EffectsNo information availableReproductive EffectsNo information availableDevelopmental hazardNo information availableTeratogenicityNo information available

Chronic Effects Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. **Target Organ Effects** Blood, Central nervous system, Eyes, Liver, Reproductive System, Respiratory system, Skin.

SECTION XII ECOLOGICAL INFORMATION

Eco-Toxicity: we have no quantitative data concerning the ecological effects of this product. Should not be released into the environment.

Component	Algae	Fish	Water Flea
Acetone		96h LC50 Oncorhynchus mykiss:4.74 - 6.33 mL/L 96h	48h EC50 Daphnia magna:
		LC50	10294 - 17704 mg/L [static]
		Pimephales promelas: 6210 - 8120mg/L [static]	48h EC50 Daphnia magna
		96h LC50 Lepomis macrochirus:8300 mg/L:	12600 - 12700 mg/L
Ethyl alcohol		96h LC50 Oncorhynchus mykiss:12.0 - 16.0 mL/L [static]	48h LC50 Daphnia magna: 9268
		96h LC50 Pimephales promelas:13400 - 15100 mg/L	- 14221 mg/L
		[flow-through]	24h EC50 Daphnia magna:
		96h LC50 Pimephales promelas:>100 mg/L [static]	10800 mg/L
Ethyl acetate	48h EC50 Desmodesmus	96h LC50 Pimephales promelas:220 - 250 mg/L [flow-	48h EC50 Daphnia magna: 560
	subspicatus: 3300 mg/L	through]	mg/L [static]
		96h LC50 Oncorhynchus mykiss:352 - 500 mg/L [semi-	
		static]	
		96h LC50 Oncorhynchus mykiss:484 mg/L [flow-through]	

Persistence and Degradability No information available

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Bioaccumulation No information available

Mobility in Environmental Media No information available

Component	log Pow
Acetone	-0.24
Ethyl alcohol	-0.32
Ethyl acetate	0.6

Waste Disposal Methods Contaminated Packaging

Dispose of contents/container in accordance with local regulation.

Empty containers should be taken to an approved waste handling

site for recycling or disposal.

SECTION XIV TRANSPORT INFORMATION

DOT UN1210, Printing Ink, 3, II UN1210, Printing Ink, 3, II UN1210, Printing Ink, 3, II UN1210, Printing Ink, 3, II

SECTION XV REGULATORY INFORMATION

International Inventories

Listed on TSCA. For further information, please contact: Manufacturer, importer, supplier

U.S. Federal Regulations

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313: None known

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

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

U.S. State Regulations

Component	Massachusetts Right To Know	Minnesota Right To Know	New Jersey Right To Know	Pennsylvania Right To Know
Acetone	X	X	X	X
Titanium dioxide	X	X	X	X
Ethyl alcohol	X	X	X	X
Ethyl acetate	X	X	X	Χ

California Prop. 65 WARNING! This product contains a chemical known in the State of California to cause cancer and / or WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm

Component	CAS-No	Weight %
Titanium dioxide	13463-67-7	10 - 30

Canada

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

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Component	WHMIS Classifications of Components
Acetone	B2,D2B
Titanium dioxide	D2A
Ethyl alcohol	B2,D2B
Ethyl acetate	B2

Component	NPRI - National Pollutant Release Inventory
Acetone	Part 4 Substance
Ethyl alcohol	Part 5 Substance
	Part 5, Individual Substance
Ethyl acetate	Part 4 Substance
	Part 5, Individual Substance

Regulation (EC) No. 1907/2006 (REACH), Article 57

This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57)

HMIS:	Health	Flammability	Reactivity	PPE
	2 *	3	0	Χ

SECTION XVI – OTHER INFORMATION

DISCLAIMER OF LIABILITY

THE INFORMATION IN THIS MSDS WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS ACCURACY OR CORRECTNESS. THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE AND DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT