SAFETY DATA SHEET



Issuing Date 01-Oct-2014 Revision Date 23-Apr-2015 Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name Textile Marking Texpen/Dalo -All colors

Other means of identification

Part Number Black (13030, 23033, 23036), Orange (23103, 23106), Red (23023, 23026), White (13080,

23083, 23086), Yellow (13060, 23063, 23066)

Formula Code J2951 (Black), J3008 (Orange), J3006 (Red), J3038 (White), J3007 (Yellow)

UN-Number UN1263

Synonyms Textile and Fabric Texpen/Dalo Markers

Recommended use of the chemical and restrictions on use

Recommended Use Solvent based marker

Uses advised against No information available

Supplier's details

Supplier Address ITW PRO BRANDS 805 E. Old 56 Highway Olathe, KS 66061 TEL: 1-800-443-9536

Emergency telephone number

Emergency Telephone

Number

800-535-5053 Infotrac

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Carcinogenicity	Category 2
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word Hazard Statements

Danger

nazaro Statements

- May be harmful if swallowed
- May be harmful in contact with skin
- May be harmful if inhaled
- Causes serious eye irritation
- May cause an allergic skin reaction
- Suspected of causing cancer
- May cause drowsiness or dizziness
- Highly flammable liquid and vapor.



Appearance Opaque, Varies, Thick viscosity,

Physical State Liquid.

Odor Pungent, Sweet, Mild,

Precautionary Statements

Prevention

- · Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Wash face, hands and any exposed skin thoroughly after handling.
- · Avoid breathing dust/fume/gas/mist/vapors/spray.
- Contaminated work clothing should not be allowed out of the workplace.
- · Use only outdoors or in a well-ventilated area.
- Keep away from heat/sparks/open flames/hot surfaces No smoking.
- · Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- · Keep cool.
- Wear protective gloves/protective clothing/eye protection/face protection.

General Advice

- If exposed or concerned: Get medical attention/advice
- Specific treatment (see supplemental first aid instructions on this label)

Eves

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

Skin

- If skin irritation or rash occurs: Get medical advice/attention.
- · Wash contaminated clothing before reuse.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Inhalation

• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion

None

Fire

• In case of fire: Use CO2, dry chemical, or foam for extinction.

Spills and Leaks

• None

Storage

- · Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.

Disposal

• Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

45.96832% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Textile and Fabric Texpen/Dalo Markers

Chemical Name	CAS-No	Weight %	Trade secret
Titanium dioxide	13463-67-7	10-30	*
Propylene glycol monomethyl ether	107-98-2	10-30	*
Cyclohexanone	108-94-1	10-30	*
Acetone	67-64-1	10-30	*
Cellulose, acetate	9004-35-7	7-13	*
Carbon black	1333-86-4	5-10	*
Bisphenol A - Epichlorohydrin polymer	25068-38-6	1-5	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance. If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. If skin irritation persists, call a physician.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Drink plenty of water. Consult a physician if necessary

Protection of First-aidersUse personal protective equipment. Remove all sources of ignition.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

Flammable. Keep product and empty container away from heat and sources of ignition. Risk of ignition Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by skin contact.

None.

Yes.

Explosion Data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate

ventilation. Remove all sources of ignition. Stop leak if you can do it without risk.

Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains, Do

not flush into surface water or sanitary sewer system. See Section 12 for additional

Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Small spillage: Use a non-combustible material like vermiculite, sand or earth to soak up

the product and place into a container for later disposal. Large spillage: Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and

sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. Ensure adequate ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers.

Conditions for safe storage, including any incompatibilities

Storage Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly

closed in a cool, well-ventilated place. Keep out of the reach of children. Keep container

closed when not in use. Keep away from incompatible materials.

Incompatible Products Strong oxidizing agents. Strong acids. Strong reducing agents. Strong alkalis.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³
Acetone 67-64-1	STEL: 750 ppm TWA: 500 ppm	TWA: 1000 ppm TWA: 2400 mg/m³ (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m³ (vacated) STEL: 2400 mg/m³ The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors (vacated) STEL: 1000 ppm	IDLH: 2500 ppm 10% LEL TWA: 250 ppm TWA: 590 mg/m ³
Propylene glycol monomethyl ether 107-98-2	STEL: 150 ppm TWA: 100 ppm	(vacated) TWA: 100 ppm (vacated) TWA: 360 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 540 mg/m³	TWA: 100 ppm TWA: 360 mg/m³ STEL: 150 ppm STEL: 540 mg/m³
Cyclohexanone 108-94-1	STEL: 50 ppm TWA: 20 ppm S*	TWA: 50 ppm TWA: 200 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 100 mg/m³ (vacated) S*	IDLH: 700 ppm TWA: 25 ppm TWA: 100 mg/m³
Carbon black 1333-86-4	TWA: 3.5 mg/m³	TWA: 3.5 mg/m³ (vacated) TWA: 3.5 mg/m³	IDLH: 1750 mg/m³ TWA: 3.5 mg/m³ TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
Silicon dioxide 7631-86-9	10 mg/m ³	20 mppcf TWA; ((80)/(% SiO2) mg/m³)	IDLH: 3000 mg/m³ TWA: 6 mg/m³
Aluminum hydroxide 21645-51-2	TWA: 1 mg/m³ respirable fraction	-	-

Immediately Dangerous to Life or Health. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH:

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields. If splashes are likely to occur, wear: Chemical splash

goggles.

Skin and Body Protection Respiratory Protection

Risk of contact: Chemical resistant gloves. Boots. Apron.

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should

be worn.

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area

and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical StateLiquidAppearanceOpaque, Varies Thick viscosity,OdorPungent, Sweet, Mild,Odor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks/ - Method</u>

No data available pН None known No data available None known Melting Point/Range **Boiling Point/Boiling Range** 55-157.78 °C / 131-316 °F None known **Flash Point** -0.56 °C / 31 °F None known **Evaporation rate** > 1 (BuAc = 1)None known Flammability (solid, gas) No data available None known

Flammability Limits in Air

upper flammability limitNo data availablelower flammability limitNo data availableVapor PressureNo data available

None known **Vapor Density** > 1 (air = 1)None known > 1 @ 70°F **Specific Gravity** None known **Water Solubility** Negligible None known No data available Solubility in other solvents None known Partition coefficient: n-octanol/waterNo data available None known **Autoignition Temperature** No data available None known **Decomposition Temperature** No data available None known **Viscosity** No data available None known

Flammable Properties HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.

Explosive Properties No data available Oxidizing Properties No data available

Other information

VOC Content (%) J2951 Black: 50%

J3006 Red: 46.9% J3008 Orange: 39.74% J3038 White: 39.74% J3007 Yellow: 43.36% J2951 Black: 488 g/L

J3006 Red: 466 g/L J3008 Orange: 461 g/L J3038 White: 465 g/L J3007 Yellow: 485 g/L

10. STABILITY AND REACTIVITY

Reactivity

VOC (g/I)

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks. Incompatible products.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong reducing agents. Strong alkalis.

Hazardous decomposition products

Carbon oxides. Smoke Soot.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation May be harmful if inhaled. May cause drowsiness and dizziness. Intentional misuse by

deliberately concentrating and inhaling contents may be harmful or fatal

Eye Contact Irritating to eyes. Causes serious eye irritation.

Skin Contact May be harmful in contact with skin. May cause irritation.

Ingestion May be harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide	> 10000 mg/kg (Rat)	-	-
Propylene glycol monomethyl ether	= 5200 mg/kg (Rat)	= 13000 mg/kg(Rabbit)	> 24 mg/L (Rat)1 h = 54.6 mg/L (Rat)4 h
Cyclohexanone	= 800 mg/kg (Rat)	= 948 mg/kg (Rabbit)	= 10.7 mg/L (Rat) 4 h = 8000 ppm (Rat) 4 h
Acetone	= 5800 mg/kg (Rat)	1700mg/kg (rabbit)	18892 mg/m ³
Carbon black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
Silicon dioxide	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	>2.2 mg/L (Rat) 4 h
Aluminum hydroxide	> 5000 mg/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization May cause an allergic skin reaction.

Mutagenic Effects No information available.

Carcinogenicity This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly

carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B	-	-
Cyclohexanone	A3	Group 3		
Carbon black	A3	Group 2B	-	X

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to its Carcinogenicity to Humans

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Chronic Toxicity Avoid repeated exposure. Repeated contact may cause allergic reactions in very

susceptible persons. May cause adverse liver effects.

Target Organ Effects Liver. Kidney. Respiratory system. Eyes. Skin. Central nervous system (CNS). Lungs.

Lymphatic system.

Aspiration Hazard No information available.

Numerical measures of toxicity - Product

Acute Toxicity 45.96832% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 2271 mg/kg; Acute toxicity estimate LD50 Dermal 3214 mg/kg; Acute toxicity estimate

Inhalation

dust/mist 6.05 mg/L; Acute toxicity estimate mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna (Water
			Microorganisms	Flea)
Acetone 67-64-1		LC50 96 h: 4.74 - 6.33 mL/L (Oncorhynchus mykiss) LC50 96 h: 6210 - 8120 mg/L static (Pimephales promelas) LC50 96 h: = 8300 mg/L (Lepomis macrochirus)	•	EC50 48 h: 10294 - 17704 mg/L Static (Daphnia magna) EC50 48 h: 12600 - 12700 mg/L (Daphnia magna)
Propylene glycol monomethyl ether 107-98-2		LC50 96 h: 4600-10000 mg/L static (Leuciscus idus) LC50 96 h: = 20.8 g/L static (Pimephales promelas)		EC50 48 h: = 23300 mg/L (Daphnia magna)
Cyclohexanone 108-94-1	EC50 96 h: = 20 mg/L (Chlorella vulgaris)	LC50 96 h: 481-578 mg/L flow-through (Pimephales promelas) LC50 96 h: = 8.9 mg/L (Pimephales promelas)	EC50 = 18.5 mg/L 5 min EC50 = 21.3 mg/L 10 min EC50 = 25 mg/L 5 min	EC50 24 h: = 800 mg/L (Daphnia magna)
Carbon black 1333-86-4				EC50 24 h: > 5600 mg/L (Daphnia magna)
Silicon dioxide 7631-86-9	EC50 72 h: = 440 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: = 5000 mg/L static (Brachydanio rerio)		EC50 48 h: = 7600 mg/L (Ceriodaphnia dubia)

Persistence and Degradability

No information available.

Bioaccumulation

Chemical Name	Log Pow
Propylene glycol monomethyl ether	-0.437
Cyclohexanone	0.86
Acetone	-0.24

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40

CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements.

Contaminated Packaging Do not re-use empty containers.

US EPA Waste Number D001

U002 U057

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Cyclohexanone - 108-94-1		Included in waste stream:		U057
		F039		
Acetone - 67-64-1		Included in waste stream:		U002
		F039		

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Acetone	Ignitable

14. TRANSPORT INFORMATION

DOT

UN-Number UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group II

Description UN1263, Paint, 3, II

Emergency Response Guide 128

Number

<u>TDG</u>

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group II

Description UN1263, Paint, 3, II

<u>MEX</u>

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group II

Description UN1263, Paint, 3, II

ICAO

UN-Number UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group II

Description UN1263, Paint, 3, II

IATA

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group II
ERG Code 3L

Description UN1263, Paint, 3, II

IMDG/IMO

UN-Number UN1263
Proper Shipping Name Paint
Hazard Class 3
Packing Group II

EmS No. F-E, S-E

Description UN1263, Paint, 3, II, (-0.56°C c.c.)

RID

UN-Number UN1263

Proper Shipping Name Paint
Hazard Class 3
Packing Group II
Classification Code F1

Description UN1263, Paint, 3, II

ADR

UN-Number
Proper Shipping Name
Hazard Class
Packing Group
Classification Code
Tunnel Restriction Code
UN1263
Paint
3
II
Classification Code
F1
Tunel Restriction Code
UN1263
Paint
Faint
F

Description UN1263, Paint, 3, II, (D/E)

ADN

Proper Shipping Name Paint
Hazard Class 3
Packing Group II
Classification Code F1

Special Provisions 163, 640C, 650 **Description** UN1263, Paint, 3, II

Limited Quantity 5 L Ventilation VE01

15. REGULATORY INFORMATION

International Inventories

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

	Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Ī	Cyclohexanone	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
	Acetone	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65

Titanium dioxide	13463-67-7	Carcinogen
Carbon black	1333-86-4	Carcinogen

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Titanium dioxide		Х			Х
Acetone	X	Х	Х		Х
Propylene glycol monomethyl ether	Х	Х	Х		Х
Cyclohexanone	X	Х	Х	X	Х
Carbon black	X	Х	X	X	X
Calcium resinate	X				

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION							
NFPA	Health Hazard 2	Flammability 3	Instability 0	Physical and Chemical Hazards -			
<u>HMIS</u>	Health Hazard 2*	Flammability 3	Physical Hazard 0	Personal Protection X			

^{*}Indicates a chronic health hazard.

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

Issuing Date 01-Oct-2014
Revision Date 23-Apr-2015

Revision Note (M)SDS sections updated: 2.

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a 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 material or in any process, unless specified in the text.

End of Safety Data Sheet
