

# REACH MSDS formular

v1

<b>Writer :</b>		
<b>Number phone :</b>		
<b>Fax :</b>		
<b>E-mail :</b>		

## 01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Name of product :	Correction pen
Code of the product :	000274
Use of the substance / preparation :	Correction pen for paper
Manufacturer / supplier :	
Address :	
Initials of the country / Locality :	Taiwan
Emergency telephone :	
Fax:	
Informations in extremly urgency :	
E – mail :	

## 02. HAZARDS IDENTIFICATION

Classification of the substance/preparation :	F R11; Xn R38 R65 R67; N R51/53
Symptoms link to use :	Pain, tearing, reddening, swelling, dizziness, light headedness, headache, nausea and loss of coordination.
Inhalation :	Breathing of high vapor concentrations may cause dizziness, light headedness, headache, nausea and loss of coordination.
Skin contact :	Contact with the skin cause irritation.
Eyes contact :	Contact with the eyes causes irritation.
Ingestion :	This material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lung it is very difficult to remove and can cuae severe injury or death.

## 03. COMPOSITION/INFORMATION ON INGREDIENTS

N°	Name of the substance	Concentration or concentration range	N° CAS	N° EINECS	Index CE	Symbol(s)	R phrase(s)	IUPAC name
1	Methyl Cyclohexane	40 ~ 50	108-87-2	203-624-3		F,Xn,N	R51/53, R65, R67, R11, R38	
2	Titanium dioxide	50 ~ 60	13463-67-7	236-675-5				
3	Polymer with ethenylmethyl benzene	5~10	39401-05-3			Nonregulated	Nonregulated	

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## 04 FIRST AID MEASURES

Is medical attention required :	yes
<u>First aid</u>	
Inhalation :	Move to fresh air in case of accidental inhalation of vapors. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth- to -mouth or mouth to nose. Use suitable instruments/apparatus. Consult a physician after significant exposure.
Skin contact :	Remove contaminated clothing and wash affected skin with soap and water. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Eyes contact :	If the substance has got into the eyes, immediately wash out with plenty of water until medical assistance is provided. Keep eye wide open while rinsing. Consult a physician for severe cases.
Ingestion :	Rinse mouth. Do not induce vomiting without medical advice. Keep patient warm. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus. Obtain medical attention. Never give anything by mouth to an unconscious person.

## 05 FIRE-FIGHTING MEASURES

Suitable extinguishing media :	Extinguish with dry chemical, foam or water spray, carbon dioxide ( CO2 )
Extinguishing media which shall not be used for safety reasons :	Do not use a solid water stream as it may scatter and spread fire.
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases :	Decomposes in a fire giving off toxic fumes and dense clouds of smoke ( carbon oxides )
Special protective equipment for fire-fighters :	Wear a positive-pressure supplied-air respirator/ full protective flameproof clothing
Special procedures :	Water mist may be used to cool closed containers

## 06 ACCIDENTAL RELEASE MEASURES

Personal precautions :	Evacuate personnel to safe areas. Remove all sources of ignition. Wear self-contained breathing apparatus and protective suit shut off leaks if without risk. Keep people away from and upwind of spill/leak.
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Environmental precautions :	Contain or absorb leaking liquid with sand or earth. Prevent liquid entering sewers basements and work pits: vapor may create explosive atmosphere. If substance has entered a water or contaminated soil or vegetation, advise police.
Methods for cleaning up methods for cleaning up :	Soak up with inert absorbent material ( e.g. sand, silica gel, acid binder, universal binder, sawdust). Transfer to covered steel drums. Contact waste disposal service. Dispose of promptly.
Measures after leaks / dispersion :	Stop the source of the release if you can do it without risk .use appropriate techniques such as applying non-combustible sorbent materials. And report spills to local authorities.

## 07 HANDLING AND STORAGE

Handling :	Use only in areas provided with appropriate exhaust ventilation. Do not breath vapours or spray mist. Avoid contact with skin, eyes and clothing. Take precautionary measures against static discharges. Keep away from open flames, hot surfaces and sources of ignition.
Storage :	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Electrical equipment should be protected to the appropriate standard. Store in original container.
Specific use(s) :	Do not use or store near heat, sparks or open flames. use and store only in well ventilated area. Keep container closed when not in use.

## 08 EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values and/or biological limit values :	Limit	TWA	STEL	Ceiling	Notation
	ACGIH	400ppm	NA	NA	NA
<u>Personal protection</u>					
Respiratory protection :	In case of insufficient ventilation wear suitable respiratory equipment.				
Hand protection :	Neoprene glove/PVC disposable gloves.				
Eye protection :	Goggles giving complete protection to eyes.				
Skin protection :	Rubber or plastic boots. Chemical resistant apron/complete suit protecting against chemicals.				
Ingestion					

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<u>industrial hygiene</u>	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.
Occupational exposure limit values :	Keep working clothes separately. Keep away from food, drink and animal feeding stuffs.

## 09 PHYSICAL AND CHEMICAL PROPERTIES

<u>General information</u>	
Physical state :	Fluid
Colour :	White
Odour :	Characteristic hydrocarbon-like
<u>Important health, safety and environmental information</u>	
pH :	NDA
Concentration :	40% at least
Boiling point/boiling range :	99-102°C
Flash point [°C] :	-4 °C
Flammability (solid, gas) :	Highly flammable
Explosive properties :	Lower 1.1 vol. %, Upper 7.2 vol. %
Oxidising properties:	Stable at normal condition, avoid Oxygen / Strong oxidizing agent
Vapour pressure :	1.6 psia (22 °C)
Relative density [g/dm <sup>3</sup> ] :	15 °C >= 0.771 g/cm <sup>3</sup> ; 15 °C <= 0.775 g/cm <sup>3</sup>
Solubility :	Water solubility : immiscible ; Solubility in other solvents : Hydrocarbons
Partition coefficient: n-octanol/water (20°C) :	
Viscosity (100°C) [mm <sup>2</sup> /s] :	0.732 cP @ 20 °C
Vapour density (101.3 kPa/air=1) :	> 3 ( AIR = 1 )
Evaporation rate :	> 1
<u>Other information</u>	
Miscibility :	
Fat solubility (solvent – oil to be specified) :	Hydrocarbons
Conductivity :	
Melting point/melting range :	-126 °C
Gas group :	
Auto-ignition temperature [°C] :	260 °C
Other :	

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## 10 STABILITY AND REACTIVITY

Stability of the substance/preparation :	Stable at normal condition
<u>dangerous reaction</u>	
Conditions to avoid :	Fire or intense heat may cause violent rupture of packages. Take precautionary measures against static discharges.
Materials to avoid:	Heat, sparks, fire and Oxygen / Strong oxidizing agent
Hazardous decomposition products :	Heating can release vapor which can be ignited. Burning produces obnoxious and toxic fumes, carbon oxides.

## 11 TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution :	Repeated or prolonged exposure to solvents may cause brain and nervous system damage.						
Acute effects (acute toxicity, irritation and corrosivity) :	<p>Inhalation: High concentration of vapours may induce unconsciousness, nausea, headache, dizziness, vomiting, cyanosis.</p> <p>Skin contact: Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.</p> <p>Eye contact: Eye irritation.</p> <p>Ingestion: Ingestion of larger amounts may cause defects to the central nervous system ( e.g. dizziness, headache).</p> <table> <tr> <td>Acute Oral Toxicity</td><td>LD50/rat/&gt;3,200mg/kg</td></tr> <tr> <td>Acute Dermal Toxicity</td><td>LD50/rabbit/&gt;86,700mg/kg</td></tr> <tr> <td>Acute Inhalation Toxicity</td><td>LD50/rat/15,227ppm/1 hour</td></tr> </table>	Acute Oral Toxicity	LD50/rat/>3,200mg/kg	Acute Dermal Toxicity	LD50/rabbit/>86,700mg/kg	Acute Inhalation Toxicity	LD50/rat/15,227ppm/1 hour
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Acute Dermal Toxicity	LD50/rabbit/>86,700mg/kg						
Acute Inhalation Toxicity	LD50/rat/15,227ppm/1 hour						
Sensitisation :	Not sensitizing						
Repeated dose toxicity :	Repeated or prolonged exposure to solvents may cause brain and nervous system damage.						
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) :	No data is available on the product itself						

## 12 ECOLOGICAL INFORMATION

Ecotoxicity :	Toxic to aquatic organisms.
Mobility :	Slightly water contaminating
Persistence and degradability :	Readily biodegradable, according to appropriate OECD test. 192hours/ 75%.

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Bioaccumulative potential :	No data is available on the product itself
Results of PBT assessment if a Chemical Safety Report is required :	
Other adverse effects :	This material should be kept out of sewage and drainage systems and all bodies of water.

## 13 Other adverse effects

Elimination of waste :	Empty containers should be taken for local recycling, recovery or waste disposal.
Information on the waste management measures when a Chemical Safety Report is required :	If recycling is not practicable, dispose of in compliance with local regulations. Can be incinerated, when in compliance with local regulation.

## 14 TRANSPORT INFORMATION

Mode of transport	Sea (IMDG)	Road (ADR)	Air (OIACI/IATA)	Rail (RID)
UN number :	2296	2296	2296	2296
Class :	3.0	3.0	3.0	3.0
Proper shipping name :	Methyl Cyclohexane	Methyl Cyclohexane	Methyl Cyclohexane	Methyl Cyclohexane
Packing group :	II	II	II	II
Marine pollutant :	Not application	Not application	Not application	Not application
Other applicable information :				

## 15 REGULATORY INFORMATION

Symbole(s) :	F-Highly Flammable
R phrase(s) :	R11 - Highly Flammable R38 - Irritation to skin R51/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 - Harmful: may cause long damage if swallowed R67 – Vapours may cause drowsiness and dizziness.
S phrase(s) :	S9 - Keep container in a well-ventilated place S16 – Keep away from sources of ignition –No smoking S33 – Take precautionary measures against static discharges. S61 – Avoid release to the environment. Refer to special instructions / MSDS. S62 – If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

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Advice of security :	Take necessary action to avoid static electricity discharge ( which might cause ignition of organic vapours ).
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<b>16 OTHER INFORMATION</b>	
Recommend to use :	Correction pen for paper
Other informations :	
Date of print :	

<b>Fonction of the responsable :</b>	<b>Present</b>
<b>Name :</b>	
<b>Number phone:</b>	
<b>Date :</b> <b>Signing :</b>	I certify all the informations given in this document are complete and exact at the day of the signing.

The contents and the format of this safety data sheet are in conformity with Directive 2001/58/CE of the European Commission and whit the regulation (EC) No 1907/2006 of the European parliament and of the council.

End of document

Number of pages : 5

You can find an extract of the reglementation of REACH

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

### 1.1. Identification of the substance or preparation

The term used for identification shall be identical to that provided on the label as set out in

Annex VI to Directive 67/548/EEC.

For substances subject to registration, the term shall be consistent with that provided under

registration and the registration number assigned under Article 20(1) of this Regulation

shall also be indicated.

Other means of identification available may also be indicated.