



- 53 ( Avoid exposure – obtain special instructions before use.)
- 61 ( Avoid release to the environment. Refer to special instructions/safety data sheets.)
- 62 ( If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.)

**IDENTIFICATION**

Product Name: Artline PAINT MARKER  
 Ship Name (CSN): non hazardous  
 Other Names: -  
 UN No. : 1210 D.G.CLASS: 3 PACK. GRP: II  
 HAZCHEM: n/a SUB. RISK :No Data SUSDP :Not Scheduled  
 PRODUCT USE: Paint marker

**PHYSICAL DATA (INK)**

APPEARANCE AND ODOUR Liquid, solvent odour.  
 BOILING POINT No data available  
 MELTING POINT n/a  
 VAPOUR PRESSURE n/a  
 VOLATILE (wt.%) 40~70  
 DENSITY(g/cm3) { White } 1.2~1.3 { Other color } 0.9~1.0  
 FLASH POINT { White,Black } -5 °C { Other color } 5 °C (closed cup)  
 FLAMMABILITY LIMITS no data  
 REL. VAPOUR DENSITY no data  
 SOLUBILITY IN WATER Insoluble

**INGREDIENTS (INK)**

Chemical or Common Name(s)	wt.%			CAS(TSCA) Number	EINECS Number
	WHITE	BLACK	Others		
Cyclohexane,methyl-	20~30	40~50	-	108-87-2	203-624-3
Naphtha(petroleum),hydrotreated heavy	1~10	1~10	-	64742-48-9	265-150-3
Naphtha(petroleum),light alkylate	-	-	30~50	64741-66-8	265-068-8
Carbon black	-	1~10	-	1333-86-4	215-609-9

**HEALTH HAZARD INFORMATION**

**HEALTH EFFECTS**

**ACUTE EFFECTS**

**SWALLOWED :**

Not applicable

**EYE :**

A moderate eye irritant.  
 May cause watering of eyes.  
 High concentrations of vapors will cause irritation.

**SKIN :**

Contact with skin may result in irritation.  
 Repeated or prolonged skin contact may lead to dermatitic effects.  
 Will have a degreasing action on the skin.

**INHALED :**

Toxic by inhalation.  
 The vapor is an irritant to the mucous membranes and respiratory tract.  
 Inhalation of vapor can result in headaches, dizziness and possible nausea.  
 Possible CNS effects.

**CHRONIC EFFECTS :**

Possible liver and kidney disorders.  
 Repeated or prolonged skin contact can cause chronic dermatitis.

**FIRST AID**

**SWALLOWED :**

Not applicable

**EYE CONTACT :**

Immediately flush with plenty of water.  
Seek medical advice immediately.

**SKIN CONTACT :**

Wipe off with dry cloth and wash with mild soap.  
Seek medical advice immediately.

**INHALATION :**

Move to well ventilated place.  
Seek medical advice immediately.

**FIRST AID FACILITIES :**

No Data

**ADVICE TO DOCTOR**

Treat symptomatically.

**ACUTE TOXICITY (RTECS ; 2002.03):**

[Cyclohexane,methyl-]

Oral LD<sub>50</sub> (rat) >3,200 mg/kg

Inhalation LCL<sub>0</sub> (rat) 82 mg/ m<sup>3</sup>/1H

[Naphtha(petroleum),light alkylate]

Oral TDL<sub>0</sub> (rat) 10 mg/kg/4W-I

Inhalation TCL<sub>0</sub> (rat) 7,500ppm/13W-I

[Carbon black]

Oral LD<sub>50</sub> (rat) >15,400 mg/kg

Inhalation TCL<sub>0</sub> (rat) 50 mg/ m<sup>3</sup>/6H/90D-I

**PRECAUTIONS FOR USE**

**EXPOSURE CONTROL PARAMETERS :**

OSHA PEL (2002)			
	[Cyclohexane,methyl-] TWA		500ppm(2,000mg/m3)
	[Carbon black] TWA		3.5mg/m3
ACGIH TLV (2002)			
	[Cyclohexane,methyl-] TWA		400ppm
	[Carbon black] TWA		3.5mg/m3
EN LIMIT (2000/39/EN)			
	Not established		

**ENGINEERING CONTROLS :**

Not required.  
Maintain concentration below recommended exposure limit.  
Use with local exhaust ventilation.  
Vapor heavier than air.  
Keep stock in a well ventilated area.  
Keep tightly capped.

**PERSONAL PROTECTION**

Not required.  
Avoid skin and eye contact.  
Do not smoke.  
Remove any naked lights or strong heat sources.

**FLAMMABILITY**

Vapors are flammable, may form explosive mixtures with air.  
While in use, keep away from heat, sparks or naked flames.

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Heating may cause explosion.

**ENVIRONMENT :**

Not applicable

**OTHER PRECAUTIONS :**

Keep away from oxidizing agents, peroxides, acids, acid chlorides, acid anhydrides, alkali metals and ammonia.

**SAFE HANDLING INFORMATION**

**STORAGE AND TRANSPORT**

Store in a cool, dry, well-ventilated location.

Keep tightly capped.

**SPILLS AND DISPOSAL :**

Disposal as usual industrial waste goods, follow all regulations in your country.

**FIRE/EXPLOSION HAZARD**

Extinguish fire with the following :

Use water fog.

Use CO<sub>2</sub>, dry chemical or foam.

**OTHER SAFE HANDLING INFORMATION**

**OTHER INFORMATION**

This product is classified as follows and labeled according to,

[Cyclohexane,methyl-] : [F,Xn,N] R:11-38-51/53-65-67 S; (2-)9-16-33-61-62  
[Naphtha(petroleum),hydrotreated heavy] :  
[T] R:45-65 S: 53-45  
[Naphtha(petroleum),light alkylate] :  
[T] R:45-65 S: 53-45

Symbol :	F	( Highly Flammable)
	N	( Dangerous for the environment)
	T	( Toxic)
	Xn	( Harmful)
Risk Phrase :	11	( Highly flammable.)
	38	( Irritating to skin.)
	45	( May cause cancer.)
	51/53	( Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.)
	65	( Harmful: may cause lung damage if swallowed.)
	67	( Vapours may cause drowsiness and dizziness.)
Safety Advice :	2	( Keep out of the reach of children.)
	9	( Keep container in a well-ventilated place.)
	16	( Keep away from sources of ignition – No smoking.)
	33	( Take precautionary measures against static discharges.)
	45	( In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).)
	53	( Avoid exposure – obtain special instructions before use.)
	61	( Avoid release to the environment. Refer to special instructions/safety data sheets.)
	62	( If swallowed, do not induce vomiting:

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seek medical advice immediately  
and show this container or label.)

Please refer to any other EU, national and local measures.

**REFERENCES :**

N.IRVING Sax and RICHARD J. LEWIS,SR, "Dangerous Properties of industrial Materials Seventh Edition", Van Nostrand Reinhold (1989).  
REGISTRY OF TOXIC EFFECTS IF CHEMICAL SUBSTANCES 1985-86 Edition

**Contact Point :** Mr. C Watt , Product Manager , Phone(02-9674-0900) Fax(02-9674-0910)

**IMPORTANT ADVICE :**

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace.  
Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.  
If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the supplier. Our responsibility for products sold is subject to our standard terms and conditions.