

JUL-25-2006 08:45

ART CLAY WORLD

P.02

33541-1010

*Material Safety Data Sheet***MANUFACTURE INFORMATION**

CORPORATION : AIDA CHEMICAL INDUSTRIES CO. LTD
 ADDRESS : 6-28-3, Minami-cho Fuchu-shi TOKYO, JAPAN ZIP 183-0026
 DEPARTMENT : Product Development
 PERSON IN CHARGE : Makoto Miyata
 TEL NO. : 042-366-8661
 FAX NO. : 042-366-5861
 ISSUED DATE : NOVEMBER 22nd 2001

PRODUCT NAME

ART CLAY SILVER OIL PASTE TYPE (with dilute solution)

SPECIFICATION OF SUBSTANCE

CLASSIFICATION OF PRODUCT : Oil Paste - Mixture
 : Dilute solution - Mixture of organic solvent

CHEMICAL NAME : Oil Paste - Silver/Heavy metal/Dissolving solution of organic solvent
 : Dilute solution- C10 Aromatic solvent/Esters solvent

COMPONENTS PERCENTAGE : Oil Paste - Silver (90%)/Heavy metal (less than 1%)
 /Dissolving solution of organic solvent (9-10%)
 : Dilute solution- C10 Aromatic solvent (40-50%)
 /Esters solvent (50-60%)

OFFICIAL REFERENCE NO. : N/D

CAS NO. : N/D

U. N. CLASSIFICATION AND NO. : N/D

CLASSIFICATION OF DANGEROUS TOXICITY

CLASSIFICATION : Oil Paste - Inflammability/Acute toxic substance
 : Dilute solution - Inflammability/Acute toxic substance

DANGEROUS POSSIBILITY : Oil Paste - Inflammability
 : Dilute solution - Inflammability

TOXICITY : Oil Paste - Liquid or vapor state stimulate skin, eye, and throat. Skin contact may cause absorption to the body. High concentrated state make anesthetic action.
 : Dilute solution - Same data as Oil paste.

*ABBREVIATIONS : N/D - Not Determined N/A - Not Applicable

JUL-25-2006 08:45

ART CLAY WORLD

P.03

FIRST-AID TREATMENT

EYE CONTACT : Oil Paste - Immediately flush eyes with water for over 15 minutes and consult a doctor.
: Dilute solution - Same treatment as Oil paste.

SKIN CONTACT : Oil Paste - Take off the clothes, which touched the solution and wash the skin with soap and water. Immediately consult a doctor if the patient felt any inflammation on the skin.
: Dilute solution - Same treatment as Oil paste.

INHALATION : Oil Paste - Take a fresh air with a rest cure and consult a doctor.
: Dilute solution - Same treatment as Oil paste.

IF SWALLOWED : Oil Paste - Have the patient throw out with taking a large amount of water or a high concentrated salty water, and consult a doctor.
: Dilute solution - Same treatment as Oil paste.

FIRE-FIGHTING MEASURES

EXTINGUISHING : Oil Paste - Use water, powder(dry chemical), or carbon dioxide on a small-scale fire. Use the water spray extinguisher on a large-scale fire. Put on the protection such as an organic gas prevention mask or the air respiration not to inhale gas and smoke.
: Dilute solution - Same measure as Oil paste.

EXTINGUISHER : Oil Paste - Water, powder(dry chemical), carbon dioxide.
: Dilute solution - Same measure as Oil paste.

MEASURES ON LEAKAGE

Oil Paste - Wipe off leaked solution with cloth or remove it by vacuuming and wash.

Dilute solution - Same measure as Oil paste.

NOTES FOR HANDLING AND CUSTODY

HANDLING : Oil Paste - Put on dust protection mask and gloves if necessary. Do not work next to the fire. Do not inhale vaporized solution.
: Dilute solution - Same handling as Oil paste.

***ABBREVIATIONS** : N/D - Not Determined N/A - Not Applicable

JUL-25-2006 08:45

ART CLAY WORLD

P.04

CUSTODY : Oil Paste – Seal the bottle completely and keep in a cool and dark place avoiding direct sunlight.
: Dilute solution – Same handling as Oil paste.

MEASURES FOR PROTECTING EXPOSURE

CONCENTRATION IN CUSTODY : Oil Paste – N/D
: Dilute solution – N/D

MAXIMUM CONCENTRATION : Oil Paste – N/D
: Dilute solution – N/D

MEASURE TO INSTALL : Oil Paste – Install the ventilation system. Install a sink and place the sign that indicates sink's position.
: Dilute solution – Same measure as Oil paste.

PROTECTIONS : Oil Paste – Put on protection mask, glasses, and gloves.
: Dilute solution – Same measure as Oil paste.

PHYSICAL / CHEMICAL CHARACTERISTIC

APPEARANCE : Oil Paste – Gray
: Dilute solution – Transparent

BOILING POINT : Oil Paste –Silver; 2155°C / 3911° F
Heavy metal; N/A
Dissolving solution of organic solvent:190°C/374° F
: Dilute solution – 190°C/374° F

MELTING POINT : Oil Paste –Silver; 961°C / 1761.8° F (In vacuum condition)
950°C / 1742° F (in equilibrium to oxygen)
Heavy metal; N/A
Dissolving solution of organic solvent; N/A
: Dilute solution – N/A

SOLUBILITY : Oil Paste –Silver; insoluble in water / soluble in nitric acid
Heavy metal; N/A
Dissolving solution of organic solvent; insoluble
: Dilute solution – insoluble

HAZARDOUS INFORMATION

FLASH POINT : Oil Paste –Silver; Non-flammable
Heavy metal; Non-flammable
Dissolving solution of organic solvent; 67°C/152.6° F
: Dilute solution – 65°C/149° F

***ABBREVIATIONS** : N/D – Not Determined N/A – Not Applicable

JUL-25-2006 08:45

ART CLAY WORLD

P.05

IGNITION POINT : Oil Paste -Silver; Non-ignitable
 Heavy metal; Non-ignitable
 Dissolving solution of organic solvent; N/A
 : Dilute solution - N/A

COMBUSTIBILITY : Oil Paste -Silver; None
 Heavy metal; None
 Dissolving solution of organic solvent; combustible
 : Dilute solution - combustible

TOXICITY INFORMATION

SKIN CORROSION : Oil Paste - None
 : Dilute solution - None

STIMULATION : Oil Paste - Liquid or vapor state stimulate skin, eye, and
 throat. Skin contact may cause absorption to the body.
 High concentrated state make anesthetic action.
 : Dilute solution - Same data as Oil paste.

ACUTE TOXICITY : Oil Paste - None
 : Dilute solution - None

INERTIA TOXICITY : Oil Paste - May change color of the eyes, nose, throat, and
 skin(silver composure).
 : Dilute solution - None

CARCINOGEIC RISK : Oil Paste - None
 : Dilute solution - None

VARIATION RISK : Oil Paste - None
 : Dilute solution - None

REPRODUCTIVE TOXICITY: Oil Paste - None
 : Dilute solution - None

DECOMPOSITION : Oil Paste - None
 : Dilute solution - None

ACCUMULATION : Oil Paste - None
 : Dilute solution - None

MARINE TOXICITY : Oil Paste - None
 : Dilute solution - None

OTHERS : Oil Paste - None
 : Dilute solution - None

DISPOSAL INSTRUCTION

: Oil Paste-Absorb it with cloth and burn up gradually in an incinerator.
 : Dilute solution - Same instruction as Oil paste.

TRANSPORT INSTRUCTION

: Oil Paste - Seal up the bottle for avoiding the sunlight (ultraviolet rays). K
 eep in the custody at 5°C/41° F to a room temperature. Make sure to load up not
 to be fell, tumbled, and damaged. Carry on a cart if packed condition would be h
 eavy. It must not be handled at flammable condition.
 : Dilute solution - Same instruction as Oil paste.

***ABBREVIATIONS** : N/D - Not Determined N/A - Not Applicable

JUL-25-2006 08:45

ART CLAY WORLD

P.06

REGULATORY INFORMATION

Ensure this product in compliance with federal, state, and local regulations.

OTHER INFORMATION

REFERENCES: CHEMICAL ENCYCLOPAEDIA (KYORITSU PUBLISHING)
THE GUIDE FOR SAFTY DATE SHEET (JAPANESE CHEMICAL INDUSTRY
ASSOCIATION)

(HANDLING OF THIS DATA SHEET)

The above mentioned data correspond to our present state of knowledge and experience, but no warranty is made. Users should consider these data only as a supplement to other information and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of the materials and safety and health of employees and customers.

*ABBREVIATIONS : N/D - Not Determined N/A - Not Applicable