SPI Supplies Division
Structure Probe, Inc.
P.O. Box 656 West Chester, PA 19381-0656 USA
Phone: 1-(610)-436-5400 **Fax:** 1-(610)-436-5755
spi3spi@2spi.com
http://www.2spi.com
Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: April 28, 2015

SPI #04990-AB
SPI Supplies® Brand Platinum Paint

Section 1: Identification

Chemical Name/Synonyms..... Platinum Paint

Chemical family..... Mixture

Emergencies
Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...
Worldwide phone: 1-(703)-527-3887
Worldwide FAX: 1-(703)-741-6090
Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name..... SPI Supplies® Brand Platinum Paint

CAS #'s..... 7440-06-4; 123-86-4; 108-65-6

Chemical Formula..... Mixture

HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3)
Specific target organ toxicity – single exposure (Category 3) central nervous system
Eye Irritant (Category 2A)
Acute toxicity (Category 4)
Acute aquatic toxicity (Category 3)

GHS Label Elements

Pictogram

Signal word: Warning

Hazard Statements:

H 225 Highly flammable liquid and vapor
H319 Causes serious eye irritation
H332 Harmful if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H402 Harmful to aquatic life

Precautionary statements:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. - No smoking.
P233 Keep container tightly closed
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P300 + P361 + P353 IF ON SKIN: Remover/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P370 + P 378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous Material Information System USA

Health..... 2
Fire Hazard..... 3
Reactivity..... 0
Personal Protection.....

NFPA Rating (estimated)

Health..... 2
Flammability..... 3
Reactivity..... 0

Section 2: Composition

Component Name	CAS#	Percentage	EC Number
Platinum	7440-06-4	>70 %	231-116-1
n-Butyl acetate	123-86-4	10 – 20 %	204-658-1
Methoxypropyl acetate	108-65-6	5 – 15 %	203-603-9

Section 3: Hazard Identification

Emergency overview:

Appearance: Black/gray paste
Flash Point: 84°F (28°C)

Warning! Flammable liquid and vapor. Vapor harmful. Inhalation may affect the brain or nervous system causing dizziness, headache or nausea.

Routes of Entry: Skin contact, Inhalation, Ingestion, Eye contact

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May cause dermatitis.

Ingestion: Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

Inhalation: Respiratory system irritant. May cause a variety of symptoms such as dryness of the throat, tightness of the chest, and shortness of breath. May cause central nervous system depression, characterized by headache, dizziness, staggering gait, confusion, unconsciousness or coma.

Chronic: Repeated or prolonged solvent overexposure may result in permanent central nervous system damage. Chronic skin contact may cause dermatitis.

Section 4: First Aid Measures

Eyes: Flush eyes immediately with copious amounts of water, holding the eyelids open, for at least 15 minutes. Seek medical attention.

Skin: Flush skin with copious amounts of water, while removing contaminated clothing. Wash affected skin areas with soap and water. Wash contaminated clothing before reuse. Seek medical attention if symptoms develop.

Ingestion: If swallowed, do not induce vomiting. If conscious, give victim one or two glasses of water or milk. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately for further instructions.

Inhalation: Remove victim to fresh air. If breathing is difficult, give oxygen. Give artificial respiration if breathing has stopped. Seek immediate medical attention.

Section 5: Fire Fighting Measures

General Information:

Flash point: 84°F, 28°C
Explosive Limits:
Upper(%): 13.1%(V)
Lower(%): 1.3%(V)
Autoignition Temperature: Not determined

Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam, Water Fog

Firefighting Procedures:

Wear full firefighting protective clothing, including a full face piece, positive pressure, self contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles are preferable.

Unusual Fire and Explosion Hazards:

Flammable liquid and vapor. Keep containers tightly closed. Keep away from heat, electrical equipment, sparks, open flames, other sources of ignition. Use water spray to keep fire exposed containers cool. Closed containers may rupture when exposed to extreme heat. Under fire conditions, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

Section 6: Accidental Release Measures

General Information:

Before attempting clean-up, refer to hazard caution information in other sections of the msds.

Spills/Leaks:

Spill Response:

Evacuate the area of all unnecessary personnel.

Action to take for spills:

For small spills: Absorb on to rags, sand, or other absorbent material.

For large spills: Get workers out of the affected area. If flammable liquids or vapors may be present, turn off electrical devices or other sources of sparks or flames. Wear protective equipment. Use supplied-air respiratory protection if vapor concentrations are not known. Contain spill at source by diking or absorbing with sand. Do not allow spill to spread to or intentionally flush to sewer or ground. Wash area thoroughly. Adequately ventilate area. Spill residue, cleaning rags, and absorbent may be refined to recover the precious metal content.

Section 7: Handling and Storage

Handling:

Do not handle until all safety precautions have been read and understood.

Keep container tightly closed and upright to prevent leakage. Ground and bond containers when transferring material. Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing of vapor or spray mists. Use with adequate ventilation.

Empty containers should not be re-used. Because empty containers may retain product residue and flammable vapors, keep away from heat, sparks and flame. Do not cut, puncture or weld on or near the empty container. Do not smoke where product is used or stored.

Storage:

Do not store or use near heat, sparks or open flame. Store only in well-ventilated areas. Do not puncture, drag or slide container. Keep container closed when not in use. Refer to OSHA 29CFR Part 1910.103 “Flammable and Combustible Liquids” for specific storage requirements.

Section 8: Exposure Controls and Personal Protection

Engineering Controls:

Safety shower and eyewash station must be readily available.

Ventilation sufficient to maintain air contaminant levels below recommended exposure limits must be provided. Solvent vapors are heavier than air and collect in lower levels of the work area. Explosion-proof ventilation equipment should be provided to prevent flammable vapor/air mixtures from accumulating.

Exposure Limits:

Chemical Name	ACGIH TLV,TWA	ACGIH TLV,STEL	OSHA PEL TWA	OSHA PEL CEILING	OSHA PEL
1-Methoxy-2-propyl acetate	NE	NE	NE	NE	
N-Butyl acetate	150 ppm	200 ppm	710 mg/m^3 150ppm		NE
Platinum	1 mg/m^3	NE	NE	NE	

NE= Not established

Personal Protective Equipment

Eyes: Chemical splash goggles or safety glasses with side shields

Skin: Neoprene, nitrile, or rubber gloves

Clothing: Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse.

Respirators: Consult ANSI Standard Z988.2 for decision logic to select appropriate NIOSH/MESA approved respirators. If respirators are needed to meet applicable limits, a respiratory protection program up to the level of OSHA Standard 290CFR 1910.134 is mandatory.

Section 9: Physical and Chemical Properties

Physical State: paste
Appearance: black/gray
Odor: mild fruity smell
pH: n/a
Vapor Pressure: n/a
Vapor Density: Heavier than air
Evaporation Rate: Faster than n-butyl acetate
Viscosity: n/a
Boiling Point: 259°F-302°F
Freezing/Melting Point: n/a
Autoignition Temperature: n/a
Flash Point: 84°F, 28°C
Decomposition Temperature: n/a
Explosion Limits(%)
Lower: 1.3%(V)
Upper: 13.1%(V)
Solubility in water: insoluble
Specific Gravity/Density: 3.32 g/cm^3
Molecular Formula: n/a
Molecular Weight: n/a
Volatile by Volume: 76.5%
Volatile by Weight: 21.1%

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal storage conditions

Conditions to Avoid: High temperatures, Sources of ignition

Incompatibility with Other Materials: Strong acids, bases, and strong oxidizers

Hazardous Decomposition of Products: Carbon monoxide, Carbon dioxide

Hazardous Polymerization: Will not occur under normal conditions

Section 11: Toxicological Information

RTECS#:

CAS# 108-56-6: AI 8925000
CAS# 123-86-4: AF 7350000
CAS# 7440-06-4: TP2160000

1-methoxy-2-propanol acetate:

Toxic effects described in animals include:

By skin or eye contact:

Mild skin irritation, eye irritation.

Respiratory effects:

Degeneration of the olfactory epithelium; renal effects; non-specific effects, e.g. weight loss and irritation; liver effects.

Additional animal tests have shown:

No genetic damage in bacterial or mammalian cell cultures; no developmental toxicity.

Human health effects of over exposure may include:

By skin or eye contact:

Skin irritation with discomfort or rash
Eye irritation with discomfort, tearing or blurring of vision
By inhalation: Nonspecific discomfort, e. g. nausea, headache, or weakness

Human effects of higher level acute, repeated, or chronic overexpose may include:

By inhalation:

Irritation to the upper respiratory passages with coughing and discomfort. In addition, animal tests indicate commercial grade 1- methoxy-2-propanol acetone does not cause developmental toxicity. However, the tests of pure 2-methoxy-1-propanol acetate in rabbits and rats by inhalation have shown developmental toxicity. 2-methoxy-propanol acetate did not show developmental toxicity by skin contact. 2-methoxy-1-propanol acetate did not show developmental toxicity by skin contact. 2-methoxy-1-propanol acetate is present in commercial grade 1-methoxy-2-propanol acetate in low concentrations.

Butyl acetate:

Toxic effects described in animals include:

By skin or eye contact:

Skin Irritation; eye irritation

By inhalation:

Eye irritation, narcosis; upper respiratory irritation

By ingestion:

Narcosis

Toxic effects of repeated or prolonged animal exposures include:

By inhalation:

Eye irritation; lower weight gain
By ingestion: Liver effects

Toxic effects of chronic animal tests include:

By inhalation: Liver effects

Additional animal tests have shown:

Developmental toxicity at dosage levels showing maternal toxicity; no genetic damage in animals, bacterial, or mammalian cell cultures.

Human health effects of overexposure may include:
By skin or eye contact: Skin irritation with discomfort, tearing, or blurring of vision
By inhalation: Irritation of the upper respiratory passages with coughing and discomfort; nonspecific discomfort, e. g. nausea, headache or weakness.

Human effects of higher level acute repeated or chronic overexposure may include:
Temporary nervous system depression with anaesthetic effect, e. g. dizziness, headache, confusion, loss of coordination, loss of consciousness.
Abnormal liver function as detected by laboratory tests.

In addition:
By skin or eye contact:
Significant skin permeation appears unlikely; there are inconclusive or unverified reports of human sensitization.

Platinum (metallic):

SKIN CONTACT:	May cause skin irritation.
SKIN ABSORPTION:	May be harmful if absorbed through skin.
EYE CONTACT:	May cause eye irritation.
INHALATION:	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
INGESTION:	May be harmful if swallowed.
SENSITIZATION:	Prolonged or repeated exposure may lead to allergic reaction.

SIGNS AND SYMPTOMS: The toxicological properties of this material have not yet been thoroughly investigated.

Section 12: Ecological Information

Exotoxicity: No information found in our selected sources.

Environmental Fate: No information found in our selected references.

Bioaccumulation: Not expected to occur.

Section 13: Disposal Considerations

Use only licensed transporters and permitted disposal facilities and conform to all laws.

Recycle to process, if possible. Platinum is a non-renewable resource.

Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused materials, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Section 14: Transport Information

	US DOT	**IATA**
Proper Shipping Name:	Paint	Paint
Hazard Class:	3	3
Secondary Hazard:	None	None

UN/NA Number:	1263	1263
Packing Group:	III	III

Emergency Response Guide: 128

Section 15: Regulatory Information

United States:

TSCA
All components of this product are listed on the TSCA 8 inventory.

SARA:

Section 302 (RQ)
none
Section 302 (TPQ)
none
SARA Codes
CAS# 123-86-4: Fire hazard, Chronic health hazard

Section 313
none

CERCLA
CAS# 123-86-4 has an RQ of 5000 lbs.

OSHA:
This product is considered hazardous as defined by 29 CFR 1910.1200(OSHA HazCom Standard.)

State (Individual states in the USA)
CAS#'s 123-86-4 and 108-65-6 are listed on the MA, NJ and PA Right to Know Lists.

California No Significant Risk Level:
n/a
California Prop. 65:
None

European/International Regulations:
European Labeling in Accordance with EC Directives

Hazard Symbols: Xi irritant
Risk Phrases:
- R10 Flammable
- R36 Irritating to eyes
- R66 Repeated exposure may cause skin dryness or cracking
- R67 Vapors may cause drowsiness and dizziness

Safety Phrases:
- S2 Keep out of the reach of children
- S25 Avoid contact with eyes

WGK (Water Danger/Protection):
n/a

Canada

WHMIS classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL / NDSL
CAS# 108-65-6 is listed on the DSL list. CAS# 108-65-6 is not listed on the NDSL list.

CAS# 123-86-4 is listed on the DSL list. CAS# 123-86-4 is not listed on the NDSL list.

CAS# 7440-06-4 is listed on the DSL list. CAS# 7440-06-4 is not listed on the NDSL list.

Section 16: Other Information

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

The information and recommendations set forth above are taken from sources believed to be accurate as of the date hereof, however SPI Supplies and Structure Probe, Inc. make no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assume no liability to any user thereof. The information contained in this sheet does not constitute a hazard assessment and should not be used in place of the user's own assessment of work place risks as required by other health and safety legislation. Be aware of the Structure Probe, Inc. Copyright Policy. Structure Probe, Inc. grants a nonexclusive license to make unlimited copies of this safety sheet for internal use only. Quite obviously, this information would pertain only to this material when purchased from SPI Supplies as product from other sources, with other ingredients and impurity levels could have substantially different properties.