SAFETY DATA SHEET

PLASTO CEMENT

1. PRODUCT & COMPANY IDENTIFICATION

PRODUCT: PLASTO CEMENT
CAS NUMBER: 67-64-1
Recommended Use: A two part PVC cement for use with PVC sheets or PVC conveyor belts. Used in conjunction with a hardener for superior bonding.

Supplier:
Chemvulc Marketing
1107 Anvil Road
Robertville
South Africa
Telephone: +27 11 472 1016
Email: info@chemvulc.co.za

New Zealand Distributor:	**Australia Distributor:**	**South Africa Distributor:**
Chemvulc New Zealand Ltd 155c Manukau Road Pukekohe Auckland New Zealand	Chemvulc Industrial Australia (CIA) Unit 3 11 Precision Place Mulgrave New South Wales	Chemvulc Marketing Pty Ltd 1007 Katrol Street Robertville Roodepoort South Africa

Other Global Distributors:
Please contact Manufacturer

Customer Service Toll Free Number: 0508 CHEMVULC
Emergency Telephone:
NZ 0800 CHEMCALL (0800 243 622)
AUSTRALIA: 1-800 127 406; +61 131126 (poison control)
SOUTH AFRICA: +27 21 689 5227 (Poison Centre) 0800 172 743 (Spill Response)
GLOBAL: +64 3 3530199
(24 HRS)(EMERGENCIES ONLY)

TRANSPORT EMERGENCY ONLY DIAL: 111

This SDS may not provide exhaustive guidance for all the HSNO controls assigned to this substance. The EPA website www.epa.govt.nz should be consulted for a full list of triggered controls and cited regulations.

2. HAZARDOUS IDENTIFICATION

HSNO New Zealand Approval Code: HSR006434
HSNO Hazard Classification: 3.1B, 6.1E (All), 6.1E (O), 6.3B, 6.4A

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	Content
Acetone	67-64-1	70-85%
PVC		30-15%

4. FIRST AID:

Consult the National Poisons Information Centre listed in section 1 or a doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause injury. If breathing difficulties occur seek medical attention immediately.

Eye Contact
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention immediately.

Skin Contact
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing before reuse. Get medical attention.

Hazardous Skin Contact
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Hazardous Inhalation
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth to mouth resuscitation. Seek medical attention.

Ingestion
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get medical attention if symptoms appear.

Hazardous Ingestion
No additional information

Notes to Physician Support respiratory and cardiovascular function.

Potential Acute Health Effects

Eyes Very hazardous case of eye contact (irritant). Inflammation of the eye is characterised by redness, watering and itching.

Skin Sensitisation of the product. Not available.
Very hazardous in case of skin contact (permeator). Hazardous in case of skin contact (irritant).

Slightly hazardous in case of skin contact (sensitiser). Severe over-exposure can result in death. Skin inflammation is characterised by itching, scaling, reddening, or occasionally, blistering.

/***nhalation*** Hazardous in case of inhalation. May be fatal if inhaled.

Ingestion Hazardous in case of ingestion. May be fatal if swallowed.

Potential Chronic Health Effects

CARCINOGENIC EFFECTS: Classified NONE by NTP, NONE by OSHA, NONE by NIOSH. A4 (Not classifiable for human or animal) by EPA.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Classified NONE for human.
Medical Conditions Persons with chronic respiratory or skin diseases may be at increased risk from exposure.

Aggravated by Overexposure:

Overexposure Restlessness, slow reaction time, slurred speech, nausea, vomiting, dizziness, alaxia, Signs / Symptoms intoxication, sensory disturbances, rapid pulse, sweating, drowsiness, stupor and finally coma. Hypertension, tachycardia, cold pale skin, hyperthermia, slow stertorous respiration. Death from respiratory or circulatory failure or from aspiration pneumonitis.

5. FIRE FIGHTING MEASURES:

Flammability of the Product: **Flammable.**

Auto-Ignition Temperature 465º C (869º)

Flash Points CLOSED CUP : - 20º C (-4º F)

Flammable Limits LOWER: 2.6% UPPER: 12.8%

Products of Combustion
These products are carbon oxides (CO, CO2)

Fire Hazards in Presence of Various Substances
Extremely flammable in presence of open flames and sparks, of heat.
Flammable in presence of reducing materials.

Slightly flammable to flammable in presence of oxidising materials, of combustible materials.
Non-flammable in presence of shocks
.
Explosion Hazards in Presence of Various Substances
Risks of explosion of the product is presence of static discharge: Yes
Non-explosive in presence of shocks.
Vapour-air mixtures are explosive within flammable limits.

Fire Fighting Media and Instructions
Flammable liquid, soluble or dispersed in water
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use alcohol foam, water spray or fog.

Protective Clothing
Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full (Fire) protective gear.

Special Remarks on Fire Hazards
Heated containers may rupture from excessive heat.

Special Remarks on Explosion Hazards
Plasto Cement may form expolsive mixtures with chromic aldehyde, hydrogen peroxide, nitric acid, acetic acid.

6. ACCIDENTAL RELEASE MEASURES:

Action to take for spills/leaks:

Small spills/leaks:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large spills/leaks:

Flammable liquid.
Keep away from heat. Keep away from sources of ignition. Stop leakage without risk. Absorb with DRY earth, sand or other non-combustible material.

DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

HANDLING:

Keep lock up. DO NOT ingest. Do not breathe gas, fumes, vapour or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice and show the container or label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents.

STORAGE:

Store in a segregated and approved area. Keep container in a cool, well ventilated area. Keep
Container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

This substance is subject to a requirement for an emergency management plan, secondary containment and signage, whenever it is held in quantities of 1000 litres or more, either alone on an aggregate or with other hazardous substances. See Hazardous substances (Emergency Management) Regulations 25-42.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION:

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

Reference	Ingredient	TWA	STEL
	Acetone	750ppm	1782 mg/m3

Personal Protective Equipment

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of Vapours below their respective threshold limit value. Ensure that eyewash stations and safety
Showers are proximal to the work-station location.

Eyes Splash goggles.
Body Lab coat.
Respiratory Vapour and dust respirator. Be sure to use a MSHA / NIOSH approved respirator when ventilation is inadequate.
Hands Gloves.
Feet Not applicable.

Personal Protection in Splash goggles. Full suit. Vapour and dust respirator. Boots. Gloves. A self contained breathing Case of Large Spill apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

9. PHYSICAL & CHEMICAL PROPERTIES:

APPEARANCE: Liquid, Syrup like consistency, Clear in Colour
ODOR: Pungent. Fruity. Minty Sweetish Strong Odour
pH: N/A
RELATIVE DENSITY: 58g/mole
BOILING POINT: 56.2 deg C
VAPOR PRESSURE: 186mm of HG
SPECIFIC GRAVITY: 0.79
SOLUBILITY: Easily soluble in cold water, hot water, methanol, diethyl ether.
Partially soluble in n-octanol

10. STABILITY & REACTIVITY:

STABILITY:
This product is stable.
Conditions of Instability
Heat: open flames, sparks, static discharge. May react vigorously with chloroform in the presence of the base.

INCOMPATIBILITY:
Reactive with oxidizing agents, organic peroxides, chromium trioxide, chromic acid solution, potassium tert-butoxide, hydrogen peroxide, nitric acid and its mixture with sulphuric acid, per Monosulphuric acid, chromyl chloride, nitrosyl perchlorate and chloride, bromine, bromine Trifluoride, hydrobromites, sulphur dichloride, dioxygen difluoride, aliphatic amines.

HAZARDOUS DECOMPOSITION
Carbon Monoxide and carbon dioxide may form when heated to decomposition

POLYMERIZATION: none

11. TOXICOLOGICAL INFORMATION:

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

Toxicity to Animals
WARNING : THE LC 50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.
Acute oral toxicity (LD50) : 5800 mg/kg (Rat)
Acute dermal toxicity (LD50) : 20000 mg/kg (Rabbit)
Acute toxicity of the vapour (LC50) : 29826.6 ppm 4 hour(s) (Rat).

Chronic Effects on Humans
CARGINOGENIC EFFECTS : Classified NONE by NTP, NONE by OSHA, NONE by NIOSH, NONE by MAK. Cannot be classified. A4 (Not classified for human or animal.) by EPA.
TETRATOGENIC EFFECTS: Classified NONE for human.
DEVELOPMENTAL TOXICITY : Not toxic.
The substance is toxic to blood, kidneys, lungs, liver. The substance is not toxic to the nervous system.

Other Toxic Effects On Humans
Very hazardous in case of skin contact (permeator), of eye contact (irritant).
Hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Slightly hazardous in case of skin contact (sensitiser).
Material is irritating to mucous membranes and upper respiratory tract.

12. ECOLOGICAL INFORMATION:

ENVIRONMENTAL FATE:

ECOTOXICITY:
May be slightly toxic to aquatic life. No food chain concentration potential.
LD50 Fish: > 1000 ppm/96 hr.
EC50: 10 000 – 40 000 ppm (ASRI Test).
EC50: 1000 – 10 000 ppm Pseudomonas putida, growth inhibition.
EC50: 1000 – 10 000 ppm. Algal growth inhibition

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHOD:
Waste Information
Do not allow to enter drain or sewers, can cause explosion. Do not allow to enter any body of water.
Whatever cannot be saved for recovery or recycling should be handled according to Federal State / Provincial or local laws and regulations for hazardous waste and sent to a licensed / permitted incinerator, landfill.

Waste Stream
Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved incinerator or disposed of in an approved waste facility.
Consult your local regional authorities.

14. REGULATORY INFORMATION:

DOMESTIC (LAND, D.O.T.)
Proper Shipping Name: PLASTO CEMENT
Hazard Class: 3
UN Number: 1090
Packing Group: II
Hazchem Code: 3[Y]E

AIR TRANSPORT IATA
Proper Shipping Name: PLASTO CEMENT
Hazard Class: 3
UN Number: 1090
Packing Group: II
Hazchem Code: 3[Y]E

Special Provisions:
TDG Classification TDG CLASS 3: Flammable liquid.
ADR/RID ADR CLASS : Flammable liquid A. Flammable liquid with a flashpoint lower than 21ºC (70ºF).
Classification
IMO/IMDG CLASS 3.2: Flammable liquid (Intermediate flashpoint group of liquids having a flashpoint of
Classification -18ºC (0ºF) up to, but not including 23ºC (73ºF) c.c.).
ICAO/IATA CLASS 3: Flammable liquid.
Classification

15. REGULATORY INFORMATION:

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval Code: HSR002652. Solvents (Flammable, toxic) Group Standard 2014.

Key workplace requirements:	
MSDS	To be available within 10 minutes in workplaces storing any quantity.
Labelling	No removal of labels and/or decanting of product into other containers can occur.
Emergency Plan	Required if >1000L is stored.
Approved Handler	Not required.
Tracking	Not required.
Bunding & secondary containment	Required if >1000L is stored.
Signage	Required if >1000L is stored in any one location.
Location Test Certificate	Not required.
Flammable Zone	Not required.
Fire Extinguisher	Not required.

IICS Classification HCS CLASS: Flammable liquid having a flashpoint lower than 37.8ºC (100ºF).

U.S. Federal TSCA Inventory : **Acetone**
Regulations
Clean water act (CWA) 307: No products were found.
Clean water act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

International Regulations
WHMIC (Canada) WHMIS CLASS B-2: Flammable liquid with flashpoint lower than 37.8ºC (100ºF).
CEPA DSL: Acetone
EINECS 200 – 662-2.
DSCL (EEC) R11 – Highly flammable.
R38 – Irritating to skin.
R41 - Risk of serious damage to eyes.
R51 – Toxic to aquatic organisms.
International Lists No products were found.

State Regulations Pennsylvania RTK : Acetone
Florida : Acetone
Massachusetts RTK : Acetone
New Jersey : Acetone

California prop. 65: This product contains the following ingredients for which that State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: No products were found.

16. OTHER INFORMATION:

The use of this product may come under the Resource Management Act and regulations, the Health Safety and Employment Act and regulations, local council rules and regional council plans.

Abbreviations	
Approval Code	Approval Code: **HSR006434** Solvents (Flammable, toxic) ACETONE Group Standard 2014, EPA www.epa.govt.nz
CAS Number	Unique Chemical Abstracts Service Registry Number
Ceiling	Ceiling limit: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at the time
Controls Matrix	List of default controls linking regulation numbers to Marix code (e.g. T1,I16).
EC_{50}	Ecotoxic Concentration 50% - concentration in water, which is fatal to 50% of a test population (e.g. daphnia, fish species).
ERMA	Environmental Risk Management Authority (now EPA)
EPA	Environmental Protection Authority
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HSNO	Hazardous Substances and New Organisms (Act and Regulations)
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
LD_{50}	Lethal Dose 50% - dose which is fatal to 50% of a test population (usually rats)
LC_{50}	Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population (usually rats).
MBIE	Ministry of Business, Innovation and Employment (New Zealand)
MSDS/SDS	Material Safety Data Sheet or Safety Data Sheet
STEL	Short Term Exposure Limit – The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA was not exceeded.
TWA	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours).
UEL	Upper Explosive Limit
UN Number	United Nations Number
WES	Workplace Exposure Standard – The airborne concentration of a biological or chemical agent to which a worker may be exposed.

Label Requirements HIGHLY FLAMMABLE LIQUID AND VAPOUR, VAPOUR MAY CAUSE FLASH FIRE
CAN CAUSE DAMAGE TO THE FOLLOWING SPECIFIC ORGAN(S) AND SYSTEM(S):
(blood, kidneys, lungs, the reproductive system, liver).
Causes severe eye irritation.
MAY CAUSE SKIN IRRITATION.

NEXT REVIEW DATE: 01/04/2023