



# 602 CONCRETE PRIMER

## Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)

Issue date: 4/26/2022 Revision date: 9/26/2023 Supersedes: 4/26/2022 Version: 1.1

### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Product name : 602 CONCRETE PRIMER  
UN-No. (ADR) : 1263  
Product group : Trade product

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Coatings and paints, thinners, paint removers

#### 1.4. Supplier's details

##### Manufacturer

Vital Technical Sdn. Bhd.  
No.93, Jalan Industri 3/3 Rawang Integrated Industrial Park,  
48000 Rawang, Selangor, Malaysia.  
T +603 60942088 - F +603 60992930

#### 1.5. Emergency phone number

No additional information available

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

##### Classification according to the United Nations GHS

Flammable liquids, Category 2	H225	On basis of test data
Serious eye damage/eye irritation, Category 1	H318	Calculation method
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	Calculation method

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects : Highly flammable liquid and vapour, May cause drowsiness or dizziness, Causes serious eye damage.

#### 2.2. GHS Label elements, including precautionary statements

##### Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) : 

Signal word (GHS UN) : Danger

Hazardous ingredients : n-butyl acetate; ethyl acetate; [3-(2,3-EPOXYPROPOXY)PROPYL]TRIMETHOXYSILANE

Hazard statements (GHS UN) : H225 - Highly flammable liquid and vapour  
H318 - Causes serious eye damage  
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS UN) : P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read carefully and follow all instructions.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground and bond container and receiving equipment.

# 602 CONCRETE PRIMER

## Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)

### 2.3. Other hazards which do not result in classification

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
n-butyl acetate	CAS-No.: 123-86-4	30 – 50	Flam. Liq. 3, H226 STOT SE 3, H336
ethyl acetate	CAS-No.: 141-78-6	10 – 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
[3-(2,3-EPOXYPROPOXY)PROPYL]TRIMETHOXYSILANE	CAS-No.: 2530-83-8	1 – 10	Acute Tox. 5 (Inhalation), H333 Eye Dam. 1, H318
methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	CAS-No.: 80-62-6	0.1 – 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335

Full text of H-statements: see section 16

## SECTION 4: First-aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after eye contact	: Serious damage to eyes.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media	: Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Water spray.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Highly flammable liquid and vapour.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

# 602 CONCRETE PRIMER

## Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)

### 5.3. Special protective actions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### n-butyl acetate (123-86-4)

#### USA - ACGIH - Occupational Exposure Limits

Local name	n-Butyl acetate
ACGIH TWA (ppm)	50 ppm
ACGIH STEL (ppm)	150 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr
Regulatory reference	ACGIH 2021

# 602 CONCRETE PRIMER

## Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)

### methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (80-62-6)

#### EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Methyl methacrylate
IOELV TWA (ppm)	50 ppm
IOELV STEL (ppm)	100 ppm
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU

#### USA - ACGIH - Occupational Exposure Limits

Local name	Methyl methacrylate
ACGIH TWA (ppm)	50 ppm
ACGIH STEL (ppm)	100 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; body weight eff; pulm edema. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2021

### ethyl acetate (141-78-6)

#### EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Ethyl acetate
IOELV TWA (mg/m³)	734 mg/m³
IOELV STEL (mg/m³)	1468 mg/m³
IOELV STEL (ppm)	400 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164

#### USA - ACGIH - Occupational Exposure Limits

Local name	Ethyl acetate
ACGIH TWA (ppm)	400 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr
Regulatory reference	ACGIH 2021

### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures, such as personal protective equipment (PPE)

- Hand protection : Protective gloves  
Eye protection : Safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s)



### 8.4. Exposure limit values for the other components

No additional information available

# 602 CONCRETE PRIMER

## Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)

### SECTION 9: Physical and chemical properties

#### 9.1. Basic physical and chemical properties

Physical state	: Liquid
Colour	: clear.
Odour	: Sweet.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: > 35 °C
Flammability	: Highly flammable liquid and vapour.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: < 23 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic (calculated value) (40 °C)	: > 40 mm <sup>2</sup> /s
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: ≈ 0.99
Relative vapour density at 20°C	: Not available
Solubility	: Not available
Viscosity, dynamic	: 50 – 150 cP
Particle size	: Not applicable

#### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Highly flammable liquid and vapour.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

# 602 CONCRETE PRIMER

## Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)

Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

### [3-(2,3-EPOXYPROPROXY)PROPYL]TRIMETHOXYSILANE (2530-83-8)

LD50 oral rat	8025 mg/kg
LD50 dermal	4250 mg/kg

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Causes serious eye damage.  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : May cause drowsiness or dizziness.

### n-butyl acetate (123-86-4)

STOT-single exposure	May cause drowsiness or dizziness.
----------------------	------------------------------------

### methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (80-62-6)

STOT-single exposure	May cause respiratory irritation.
----------------------	-----------------------------------

### ethyl acetate (141-78-6)

STOT-single exposure	May cause drowsiness or dizziness.
----------------------	------------------------------------

STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified

### 602 CONCRETE PRIMER

Viscosity, kinematic	> 40 mm <sup>2</sup> /s
----------------------	-------------------------

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

### [3-(2,3-EPOXYPROPROXY)PROPYL]TRIMETHOXYSILANE (2530-83-8)

EC50 other aquatic organisms 1	324 mg/l
--------------------------------	----------

### 12.2. Persistence and degradability

#### 602 CONCRETE PRIMER

Persistence and degradability	Not rapidly degradable
-------------------------------	------------------------

#### n-butyl acetate (123-86-4)

Persistence and degradability	Not rapidly degradable
-------------------------------	------------------------

#### methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate (80-62-6)

Persistence and degradability	Not rapidly degradable
-------------------------------	------------------------

#### ethyl acetate (141-78-6)

Persistence and degradability	Not rapidly degradable
-------------------------------	------------------------

### [3-(2,3-EPOXYPROPROXY)PROPYL]TRIMETHOXYSILANE (2530-83-8)

Persistence and degradability	Not rapidly degradable
-------------------------------	------------------------

# 602 CONCRETE PRIMER

## Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)

### 12.3. Bioaccumulative potential

#### 602 CONCRETE PRIMER

Bioaccumulative potential	No additional information available
---------------------------	-------------------------------------

### 12.4. Mobility in soil

#### 602 CONCRETE PRIMER

Mobility in soil	No additional information available
------------------	-------------------------------------

### 12.5. Other adverse effects

Ozone : Not classified  
Other adverse effects : No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Additional information : Flammable vapours may accumulate in the container.

## SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA

UN RTDG	IMDG	IATA
<b>14.1. UN number</b>		
1263	1263	1263
<b>14.2. UN Proper Shipping Name</b>		
PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	Paint related material
<b>Transport document description</b>		
UN 1263 PAINT RELATED MATERIAL, 3, II	UN 1263 PAINT RELATED MATERIAL, 3, II	UN 1263 Paint related material, 3, II
<b>14.3. Transport hazard class(es)</b>		
3	3	3
		
<b>14.4. Packing group</b>		
II	II	II
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

### 14.6. Special precautions for user

#### UN RTDG

Special provisions (UN RTDG) : 163, 367  
Limited quantities (UN RTDG) : 5L  
Excepted quantities (UN RTDG) : E2  
Packing instruction (UN RTDG) : P001, IBC02

# 602 CONCRETE PRIMER

## Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)

Special packing provisions (UN RTDG) : PP1  
Portable tank and bulk container special instructions (UN RTDG) : T4  
Portable tank and bulk container special provisions (UN RTDG) : TP1, TP8, TP28

### IMDG

Special provisions (IMDG) : 163, 367  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
Special packing provisions (IMDG) : PP1  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1, TP8, TP28  
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS  
EmS-No. (Spillage) : S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER  
Stowage category (IMDG) : B  
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

### IATA

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3, A72, A192  
ERG code (IATA) : 3L

## 14.7. Transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

## SECTION 16: Other information

Issue date : 4/26/2022  
Revision date : 9/26/2023  
Supersedes : 4/26/2022

Abbreviations and acronyms : CAS-No. - Chemical Abstract Service number  
ATE - Acute Toxicity Estimate  
EC50 - Median effective concentration  
EC-No. - European Community number  
IATA - International Air Transport Association  
IMDG - International Maritime Dangerous Goods  
LC50 - Median lethal concentration  
LD50 - Median lethal dose  
LOAEL - Lowest Observed Adverse Effect Level  
N.O.S. - Not Otherwise Specified  
NOAEC - No-Observed Adverse Effect Concentration  
NOAEL - No-Observed Adverse Effect Level  
NOEC - No-Observed Effect Concentration  
OEL - Occupational Exposure Limit  
SDS - Safety Data Sheet

# 602 CONCRETE PRIMER

## Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)

Full text of H-statements:	
Acute Tox. 5 (Inhalation)	Acute toxicity (inhal.), Category 5
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H333	May be harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

Safety Data Sheet (SDS), UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.