SAFETY DATA SHEET 2022

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name : ShieldPrime IC

Other means of Identification : None

Component : Liquid

Relevant identified uses of the substance

or mixture and uses advised against : SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Application of the Substance / the Mixture : Primer

Manufacturer/Importer/Supplier/Distributor

Information : ShieldCrete® International

Company Name : ShieldCrete® International Sdn Bhd

Address : 66 Jalan Setiakasih 9 Bukit Damansara, Kuala Lumpur, Malaysia 50490

Contact Numbers : +66 928 639 833 | +63 966 465 5362

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Website : www.shieldcreteinternational.com

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification according to Regulation (EC) No 1272/2008

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

GHS08 Health Hazard

Repr. 2 H361d Suspected of damaging the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Label Elements

Labelling according to Regulation (EC) No 1272/2008:

The product is classified and labelled according to the GB CLP regulation.

Hazard Pictograms:

GHS02 

GHS07 

GHS08 

Signal Word:

Danger

Hazard-determining Components of Labelling:

- Toluene

Hazard Statements:

H225	Highly flammable liquid and vapor.
H315	Causes skin irritation.
H361d	Suspected of damaging the unborn child.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapors.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with regional/national regulations.

Additional Information:

Product contains: Reportable explosives precursors.

Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

Other Hazards

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: COMPOSITES / INFORMATION ON INGREDIENTS

Mixtures

Description: Mixture: consisting of the following components.

DANGEROUS COMPONENTS		
CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51	Toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Chronic 3, H412	75-100%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥2.5-<10%
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35	1-Methoxy-2-Propanol Flam. Liq. 3, H226; STOT SE 3, H336	1-2.5%
CAS: 72017-66-4 EINECS: 276-292-0 Reg.nr.: 01-2120137107-64	Pigmento Vermelho ácido C.I: 407 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.025-<0.25%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: FIRST AID MEASURES

General Information: Immediately remove any clothing soiled by the product.

Inhalation: In case of unconsciousness place patient stably in side position for transportation.

Skin Contact: Immediately wash with water and soap and rinse thoroughly.

Eye Contact: Rinse opened eye for several minutes under running water.
If symptoms persist, consult a doctor.

Ingestion: If symptoms persist, consult a doctor.

Most important symptoms and effects, both acute and delayed:
No further relevant information available.

Indication of any immediate medical attention and special treatment needed:
No further relevant information available.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media:
CO2, powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: Water with full jet.

Special Hazards arising from the Substance or Mixture:
During heating or in case of fire poisonous gases are produced.

Advice for Firefighters:
Protective equipment: Mount respiratory protective device.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.

Environmental precautions:
Do not allow product to reach sewage system or any water course.
Prevent seepage into sewage system, work pits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

Reference to other sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Avoid inhalation of spray application of the product.
To remove contaminated clothing and protective equipment before entering eating areas.
To wash hands after use.
Not to eat, drink and smoke in work areas.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities:

Storage:
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep receptacle tightly sealed.
Store in cool, dry conditions in well-sealed receptacles.

Specific end use(s):

No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 67-64-1 acetone

WEL Short-term value: 3620 mg/m³, 1500 ppm
Long-term value: 1210 mg/m³, 500 ppm

CAS: 107-98-2 1-methoxy-2-propanol

WEL Short-term value: 560 mg/m³, 150 ppm
Long-term value: 375 mg/m³, 100 ppm
Sk

DNELs		
CAS: 108-88-3 toluene		
Oral	DNEL Long term systemic effects	8.13 mg/kg/day (consumers)
Dermal	DNEL Long term systemic effects	226 mg/kg bw/24h (consumers)
Inhalative	DNEL Long term systemic effects	56.5 mg/m3 (consumers)
		192 mg/m3 (workers)
	DNEL Short term systemic effects	226 mg/m3 (consumers)
		384 mg/m3 (workers)
	DNEL Short term systemic effects	226 mg/m3 (consumers)
		384 mg/m3 (workers)
	DNEL Long term systemic effects	192 mg/m3 (workers)
CAS: 107-98-2 1-methoxy-2-propanol		
Oral	DNEL Long term systemic effects	3.3 mg/kg/day (consumers)
Dermal	DNEL Long term systemic effects	18.1 mg/kg bw/24h (consumers)
		50.6 mg/kg bw/24h (workers)
Inhalative	DNEL Long term systemic effects	43.9 mg/m3 (consumers)
		369 mg/m3 (workers)
	DNEL Short term systemic effects	553.5 mg/m3 (workers)

PNECs	
CAS: 107-98-2 1-methoxy-2-propanol	
PNEC Water	10 mg/l (fresh water)
	1 mg/l (marine water)
	100 mg/l (intermittent release)
PNEC Sediment	41.6 mg/kg (fresh water)
	4.17 mg/kg (marine water)
PNEC STP	100 mg/l (soil dry weight)
PNEC Soil	2.47 mg/kg (soil dry weight)

Additional information: The lists valid during the making were used as basis.

Exposure Controls

Appropriate engineering controls: No further data; see item 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

Respiratory Protection:

Select respiratory protection suitable for the actual or predicted level of exposure, the type of compound and its level of danger, certified in accordance with applicable standards. For low exposure applications, use respiratory masks with adequate protection / filters. For applications with an exposure level above the Workplace Exposure Limits (WEL), use breathing masks with adequate filters or assisted breathing masks, according to the risk assessment carried out by the occupational risk prevention services.

Protection of Hands:

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/Face Protection:

Tightly sealed goggles.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance	Fluid
Color	According to product specification
Odor	Characteristic
Odor Threshold	Not determined
pH Value	Not determined
Melting Point / Freezing Point	Undetermined
Initial Boiling Point and Boiling Range	55.8-56.6 °C (CAS: 67-64-1 acetone)

Flash Point	<0 °C (ISO 3679, CAS: 67-64-1 acetone)
Flammability	Not applicable
Ignition Temp	465 °C (CAS: 67-64-1 acetone)
Decomposition Temp	Not determined
Explosion Limits (Lower)	1.2 Vol % (CAS: 108-88-3 toluene)
Explosion Limits (Upper)	7 Vol % (CAS: 108-88-3 toluene)
Kinematic Viscosity 40 °C	< 20.5 (mm2/s)
Density at 20°C	1.037 g/cm³
Solubility in Water	Not miscible or difficult to mix
Partition Coefficient: N-octanol/Water	Not determined
Vapor Pressure at 20°C	29 hPa (CAS: 108-88-3 toluene)
Density at 20 °C	0.865 g/cm³
Relative Density	Not determined
Vapor Density	Not determined
Form	Fluid
Auto-ignition Temp	Product is not self-igniting
Explosive Properties	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Solids Content (w/w)	0.4 %
Evaporation Rate	Not determined

Other information: The provisions of directive 2004/42/CE on VOC apply to this product. Refer to the product label and /or technical data sheet for further information.

Information with regard to Physical Hazard Classes:

- Explosives — Void
- Flammable gases — Void
- Aerosols — Void
- Oxidizing gases — Void
- Gases under pressure — Void
- Flammable liquids — Highly flammable liquid and vapour.
- Flammable solids — Void
- Self-reactive substances and mixtures — Void
- Pyrophoric liquids — Void
- Pyrophoric solids — Void
- Self-heating substances and mixtures — Void
- Substances and mixtures, which emit flammable gases in contact with water — Void
- Oxidizing liquids — Void
- Oxidizing solids — Void
- Organic peroxides — Void
- Corrosive to metals — Void
- Desensitized explosives — Void

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No further relevant information available.

Chemical Stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of Hazardous Reactions: No dangerous reactions known.

Conditions to Avoid: No further relevant information available.

Incompatible Materials: No further relevant information available.

Hazardous Decomposition Products: No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity: Based on available data, the classification criteria are not met.

LD/LC50 Values Relevant for Classification		
CAS: 108-88-3 Toluene		
Oral	LD50	5,580 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	28.1 mg/l (rat)
CAS: 67-64-1 Acetone		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)
CAS: 107-98-2 1-methoxy-2-propanol		
Oral	LD50	4,016 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rbt)
Inhalative	LC50/6 h	25.8 mg/l (rat)

Primary Irritant Effect:
Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

CMR Effects (Carcinogenity, Mutagenicity and Toxicity for Reproduction):
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Suspected of damaging the unborn child.
STOT-single exposure: May cause drowsiness or dizziness.
STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard: May be fatal if swallowed and enters airways.

Information on other hazards:

Endocrine disrupting properties: None of the ingredients is listed.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic Toxicity	
CAS: 108-88-3 toluene	
EC50/48 h	3.78 mg/l (daphnia magna)
EC50/72 h	134 mg/l (algae)
LC50/96 h	mg/l (fish)
LC50/48 h	3.78 mg/l (ceriodaphnia dubia)
CAS: 107-98-2 1-methoxy-2-propanol	
EC50/48 h	23,300 mg/l (daphnia magna)
EC50r/7 d	>1,000 mg/l (pseudokirchneriella subcapitata (algae))
LC50/3 h	1,000 mg/l (bacterium)
LC50/96 h	6,812 mg/l (fish)
	≥1,000 mg/l (oncorhynchus mykiss (rainbow trout))

Persistence and Degradability: No further relevant information available.

Bioaccumulative Potential: No further relevant information available.

Mobility in Soil: No further relevant information available.

Results of PBT and vPvB Assessment: PBT: Not applicable.
vPvB: Not applicable.

Endocrine Disrupting Properties: The product does not contain substances with endocrine disrupting properties

Other Adverse Effects

Remark: Harmful to fish

Additional Ecological Information

General Notes: Water hazard class 2 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Product

Recommendation: Disposal must be made according to official regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
The information given is based on Directive (EU) 2008/98.

European waste catalogue: This product is considered hazardous waste as defined by EU Directive 2008/98/EC.

European waste catalogue: Recommended identification code 08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances.

Uncleaned Packaging

Recommendation: Disposal must be made according to official regulations.
The package should be properly drained.

SECTION 14: TRANSPORT INFORMATION

UN Number or ID Number

ADR, IMDG, IATA UN1263

UN Proper Shipping Name

ADR 1263 PAINT

IMDG, IATA PAINT

Transport Hazard Class(es)

ADR, IMDG, IATA

Class 3 Flammable liquids

Label 3

Packing Group

ADR, IMDG, IATA II

Environmental Hazards	Not Applicable
Special Precautions for User	Warning: Flammable liquids
Hazard identification number (Kemler code):	33
EMS Number:	F-E, S-E
Stowage:	Category B
Maritime transport in bulk according to IMO instruments	Not Applicable

Transport/Additional Information

ADR

Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction	Code D/E

IMDG

Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation"	UN 1263 PAINT, 3, II

SECTION 15: REGULATORY INFORMATION

Safety, Health, and Environmental Regulations/Legislation specific for the Substance or Mixture

Directive 2012/18/EU

Named Dangerous Substances - ANNEX I

None of the ingredients is listed.

Seveso Category

P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements

5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements

50,000 t

List of Substances Subject to Authorization (ANNEX XIV)

None of the ingredients is listed.

Regulation (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3, 48

Regulation (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

CAS: 67-64-1 acetone

Regulation (EC) No 273/2004 on drug precursors

CAS: 108-88-3 toluene	3
CAS: 67-64-1 acetone	3

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

CAS: 108-88-3 toluene 3

CAS: 67-64-1 acetone 3

Waterhazard Class

Water hazard class 2 (Self-assessment): hazardous for water.

Other Regulations, Limitations, and Prohibitive Regulations

Substance of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant Phrases from Sections 2 and 3

H225 Highly flammable liquid and vapor.
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- Acute toxicity - inhalation
- Skin corrosion/irritation
- Serious eye damage/eye irritation
- Respiratory sensitisation
- Skin sensitisation
- Carcinogenicity
- Specific target organ toxicity (single exposure)
- Specific target organ toxicity (repeated exposure)

Flammable Liquids	On basis of test data
Aspiration Hazard	Expert judgement

Abbreviations and Acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (GB REACH)
PNEC: Predicted No-Effect Concentration (GB REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3