Smart HP PU Exterior Flake Primer 33(Part A)

2 Component Solvent based Polyurethane

0.8 Litres & 4 Litres

Version No. :

Issue Date: **07/06/2024**

Safety Data Sheet according to CLASS requirement

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product Name	***Smart HP PU Exterior Flake Primer 33***
Product Code	SPPUEF33-WHITE/BLACK/DARK GREY/BROWN
Chemical Name	Not Applicable
Chemical Formula	Not Applicable
Other means of Identification	2 Component Solvent based Polyurethane
CAS Number	Not Applicable

Relevant use of the chemical and restriction

Relevant identified uses	Use according to manufacturer's directions

Details of manufacturer / importer

Registered Company Name	**SMART PAINT MANUFACTURING SDN BHD** (1031014-A)
Address	No. 9 & 11, Jalan Indah Gemilang 5, Taman Perindustrian Gemilang, 81800 Ulu Tiram, Johor, Malaysia.
Telephone	+607-863 9855
Fax	+607-861 5055
Email	info@smart-paints.com
Web	http://www.smart-paints.com

Emergency telephone number

Association / Organisation	Not Applicable
Emergency telephone number	Not Applicable
Other emergency telephone number	Not Applicable

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substances or mixture

GHS Classification

Flammable liquids - Category 3

Health Hazard

Acute toxicity (Oral) - Category 4
Skin Irritation - Category 2
Aspiration Toxicity - Category 1
Specific Target Organ Toxicity- Single Exposure (Respiratory system) - Category 3
Specific Target Organ Toxicity- Single Exposure (Central nervous system) - Category 3

Environment Hazard

Hazardous To The Aquatic Environment – Chronic Hazard - Category 2

Label elements

GHS label elements

Signal word

Warning

Hazard statement(s)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness and dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P242	Wash thoroughly after handling.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.

SECTION 2 HAZARDS IDENTIFICATION

Precautionary statement(s) Response	
P304+P340	IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P332+P313	If skin irritation occurs : Get medical advice / attention
P370+P378	In case of fire: Use dry sand , dry chemical or alcohol-resistant foam to extinguish
P391	Collect spillage.
Precautionary statement(s) Storage	
P405	Store in locked up.
Precautionary statement(s) Disposal	
P501	Dispose of content/ container to appropriate waste site or reclaimer in accordance with local or national regulations.

SECTION 3 COMPOSITION / INFORMATION OF INGREDIENTS

CAS number	% [weight]	Name
-	<70	Resin
13463-67-7	<10	Pigment
1330-20-7	<10	Xylene
123-86-4	<8	Butyl Acetate
108-83-8	<2	2,6-dimethylheptan-4-one

SECTION 4 FIRST AID MEASURES

Description of first aid measure

Eye contact	▪ Check or and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelid open. Do not use an eye ointment. Seek for medical attention.
Skin contact	▪ Frequent or prolonged contact may irritate and cause dermatitis. Skin contact may aggravate an exiting dermatitis condition. Remove contaminated clothing – launder before reuse. Wash gently and thoroughly the contaminated skin with running water and non-abbrasive soap. Get medical attention if redness or irritation occurs.
Inhalation	▪ High vapour (>1000 ppm) are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anaesthesia. Drowsine unconsciousness and other central nervous system effects. Evacuate the victim to a safe area as soon as possible. If the victim is not breathing, perform mouth to mouth resuscitation. Administer oxygen if available. Allow the victim to rest in a well ventilated area. Seek medical attention.

SECTION 5 FIREFIGHTING MEASURES

Suitable Fire Extinguishing Media :
Small fire : Use dry chemical. Foam or CO2.
Large fire : Use water spray. Fog or foam. Water or foam may cause frothing.

Special Protective Actions For Fire Fighters:
Cool container in water spray in order to prevent pressure build-up, auto ignition or explosion. Avoid flushing spilled material into sewers, stream or other bodies of water. For small outdoor fires, portable fire extinguishers may be used, and self contained breathing apparatus (SCBA) may not be required. Respiratory and eye protection are required for fire fighting personnel.

Specific Hazards Arising From The Chemical :
Static discharge, material can accumulate static charges which can cause an incendiary electrical discharge. “Empty” containers retain product residue (liquid and/or vapour) and can be dangerous. DO NOT pressurize, cut. Weld braze, solder, drill grind, or expose such containers to heat, flame sparks, static electricity, or other sources of ignition ; they may explode and cause injury or death.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment And Emergency Procedure

Eye /skin protection :
Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment immediately available. Wear appropriate protective clothing and chemical resistant gloves to prevent skin contact. Wear a face shield and chemical resistant clothing such as rubber apron when splashing is likely.
Respiratory Protection :
Use JKKP/NIOSH approved respiratory protection (full face piece recommended) when exposure limits are exceeded.
Ventilation :
Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. If practical, use local mechanical exhause ventilation at source of air contamination such as open process equipment.

Environment Precaution
Flammable liquid. Ventilate. Eliminate all sources of ignition. Prevent additional discharge of material. For small spills implement cleanup procedure; for large spills implement cleanup procedure and if in public area, keep public away and advice authorities , provide suitable personal protective. dike and contain spill with inert material (sand, earth, etc) and transfer liquid and solid separately to container for recovery or disposal. Report as per regulatory or disposal. Do not use combustible material such as sawdust. Report as per regulatory equipment.

Methods And Materials For Containments And Clean Up
For small liquid spills (<1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residue to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose to all salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Remove contaminated soil and dispose of safely.

SECTION 7 HANDLING AND STORAGE

Precautions For Safe Handling
Avoid smoking and use of open ire. Avoid inhalation of vapours and contact with skin and eyes. Observe good industrial practices.

Condition For Safe Storage ,including Any Incompatibilities
Store in tightly closed original container in well-ventilated area. Avoid expose to direct sunlight.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters/ Occupational Limits

	ACGIH TLV-TWA		OSHA PEL-TWA	
Ingredient/Bahan	**ppm**	**mg/m3**	**ppm**	**mg/m3**
Acrylic resin	-	-	-	-
Pigment	-	-	-	-
Xylene	100	-	100	435
Butyl Acetate	150	713	150	-
2,6-dimethylheptan-4-one	25	-	25	145

APPROPRIATE ENGINEERING CONTROL MEASURES
If user operations generate dust, fumes, gas, vapours or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.Emission from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

PERSONAL PROTECTION
Respiratory protection
Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Recommended : Full mask with type Cartridge filter.
Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products I a risk assessment indicates this is necessary. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations.
Eye protection
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Recommended : Safety glasses with side-shields.

Skin/ Body Protection
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Recommended : Wear protective clothing.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance / colour	Liquid/Colour refer catalogue
Odour	Aromatic Hydrocarbon
Solid	59.0 -65.0%
Specific Gravity (@ 25°C)	1.00 -1.05
Viscosity (Ku)	75-80
***Boiling Point**	123- 140 oC
***Flash Point**	27 – 46 ºC
***Melting Point**	Not applicable
***Vapour Pressure (@ 20°C)**	Not applicable
Vapour Density (101.3 kPA / air=1)	Not applicable
Evaporation Rate (n - Butyl Ether=1)	Not applicable
Lower Flammable Limit LEL / Explosion limit (%)	1.40
Upper Flammable Limit UEL / Explosion limit (%)	7.50
Solubility	Insoluble in water

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY
No dangerous reaction known under condition of normal use.

CHEMICAL STABILITY
Stable under normal temperature conditions and recommended use.

POSSIBILTY OF HAZARDOUS REACTION
Under normal conditions of storage and use, hazardous reaction will not occur.

CONDITIONS TO AVOID
Heat, flame , sparks.
Nitric acid, sulfuric acid, strong oxidizing agents.
Electrostatic accumulation hazard? If Yes, use proper grounding procedure.

HAZARDOUS DECOMPOSITION PRODUCTS
Under normal conditions of storage and use, hazardous decompositions products should not be produced.

SECTION 11 TOXICOLOGY INFORMATION

There is no data available on the product itself.
Toxicological information of hazardous ingredients :

Acute toxicity /Ketoksikan Akut
Components/ Komponen:
Butyl Acetate:
Acute oral toxicity : LD50 (Rat, male): 12,789 mg/kg
LD50 (Rat, female): 10,760 mg/kg
Acute inhalation toxicity : LC50 (Rat, male and female): 0.74 mg/l
Acute dermal toxicity : LD50 (Rabbit): 14,000 mg/kg

Resin :
Acute oral toxicity : LD50(rat) : 3.592 mg/kg
Acute inhalation toxicity : LC50 (rat)/4 Hour : > 6.19 mg/l
Acute dermal toxicity : LD50(rabbit) : >3.160mg/kg

Skin corrosion/irritation
Components:
Butyl Acetate:
Species : Rabbit
Exposure time: 4 hrs Result : No skin irritation

Serious eye damage/eye irritation
Components :
Butyl Acetate:
Species : Rabbit Result : No eye irritation

Respiratory or skin sensitization
Components:
Butyl Acetate:
Exposure routes: Inhalation Remarks: No data available
Exposure routes: Skin contact Result : Not sensitizing

SECTION 11 TOXICOLOGY INFORMATION

Germ cell mutagenicity
Components:
Butyl Acetate:
Germ cell mutagenicity — Assessment: Not mutagenic in vivo and in vitro

Carcinogenicity
Components:
Butyl Acetate:
Carcinogenicity — Assessment : Not classified

Reproductive toxicity
Components:
Butyl Acetate:
Reproductive toxicity — Assessment : Not classified

STOT - single exposure
Components:
Butyl Acetate:
Target Organs : Central Nervous System — Assessment : May cause drowsiness or dizziness

Resin :
Target Organs : Central Nervous System
Assessment : May cause drowsiness or dizziness

Target Organs : Respiratory system.
Assessment: May cause respiratory irritation

STOT - repeated exposure
Components:
Butyl Acetate:
Remarks: Not classified

Aspiration toxicity
Components:
Butyl Acetate:
Statement on Aspiration Tox. : No data available

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity
No data available.

Persistence And Degradability
No information available.

Bioaccumulative Potential
Has the potential to bioaccumulate.

Mobility In Soil
Floats on water. Adsorbs to soil and has low mobility.

Other Adverse Effects
Do not allow product to reach ground water, water course or sewage system.

Ingredient	Fish 96 hour, LC50 mg/L	Crustacea 48 hour, EC50 mg/L	Algae 72 or 96 hour, ErC50 mg/L
Acrylic resin	92	DNA	DNA
Pigment	DNA	DNA	DNA
Xylene	3.7	DNA	0.799
Butyl Acetate	18	44	397
2,6-dimethylheptan-4-one	30	37.2	DNA

SECTION 13 DISPOSAL INFORMATION

Waste Disposal :
Recover or recycle if possible. Otherwise dispose in accordance with all applicable with all applicable national environment laws and regulations.

Product Disposal:
This product when dispose of in its unused and uncontaminated state should be treated as a hazardous waste.

Container Disposal :
Drain container thoroughly. Rinse three times with suitable solvent. Treat rinsing as for product disposal. After draining, vent in a safe place away from sparks and fire. Send drum recoverer or metal reclaimer. Residue may cause an explosion hazard. Do not pincture, cut or weld uncleaned drums. Keep container labelled until cleaned and then remove or deface labels.

SECTION 14 TRANSPORT INFORMATION

Transport to be in accordance with ADR/RID for road/rail, IMDG for sea and IATA for air.

LAND TRANSPORT
Classified as Dangerous Goods by the criteria of the European Agreement concerning the international carriage of Dangerous Goods (ADR) by Road & Regulations concerning the international carriage of Dangerous Goods (RID) by Rail.

UN Number: 1263
Proper shipping name : Paint (including paint, lacquer,enamel, stain, shellac, varnish, liquid filler and liquid lacquer base) or paint related material (including paint thinning or reducing compound.
Class: 3
Packaging Group: III

SEA TRANSPORT
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG) for the transport of Sea.

UN Number: 1263
Proper shipping name : Paint (including paint, lacquer,enamel, stain, shellac, varnish, liquid filler and liquid lacquer base) or paint related material (including paint thinning or reducing compound.
Class : 3
Packaging Group: III
Marine Pollutant: No
SEA (Annex II of MARPOL 73/78 and the IBC Code)/ LAUT (Annex II of MARPOL 73/78 dan the IBC Code) : Not Applicable

AIR TRANSPORT
Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for the transport by Air.

UN Number: 1263
Proper shipping name : Paint (including paint, lacquer,enamel, stain, shellac, varnish, liquid filler and liquid lacquer base) or paint related material (including paint thinning or reducing compound.
Class: 3
Packaging Group: III

SECTION 15 REGULATORY INFORMATION

Applicable national regulations :

a) OHSA 1994 and relevant regulation
b) Factories and Machinery Act 1967 and relevant regulations
c) Environment Quality Act 1967 and regulations.
d) Pesticide Act 1974 and regulations
e) Occupational Safety and Health (Classification, Labelling And Safety Data Sheet of Hazardous Chemicals) Reg 2013
f) Industry Code Of Practice (On Chemicals Classification And Hazard Communication

SECTION 16 OTHER INFORMATION

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ABBREVIATION/SINGKATAN
ACGIH American Conference of Governmental Industrial Hygienists
TLV Threshold limit value
TWA Time-Weighted Average
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
LD50 Lethal Dose
LC50 Median Lethal concentration
IACR International Agency for Research in Cancer
CAS Registry Numbers Chemical Abstracts Service Registry Numbers
ICOP Industry Code Of Practice on Chemical Classification and Health approved by Minister under section 37 of the Act
C Ceiling Limit
CEIL Ceiling Limit airborne concentration
STEL Short Term Exposure Limit
DNA Data Not Available
N/R Not Regulated

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