

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	: UMEGUARD HS SILVER , BASE	Product No.: TH 6174B
Manufacutrer / Supplier	: TOA-Chugoku Paints Co.,Ltd	
	110 Moo 5 Wellgrow I.E. Bangna-Trad Rd. Km.36	,
	Bangsamak, Bangpokong Chachoengsao, 24180	
	Telephone no. 66 02 2602701-8, 66 038 570498-9	Fax: 66 02 2602700, 66 038 570500
In case of emergency	: Telephone no. 66 02 2602701-8 , 66 038 570501	
Material intended use	: Coating: Solvent (Refer to technical data sheet)	

2. HARZARDS IDENTIFICATION







3. COMPOSITION / INFORMATION ON INGREDIENTS

This product contains the following hazardous ingredients				
Ingredient name	CAS No.	EINECS No.	% by weight	Classification
Xylene	1330-20-7	215-535-7	5 - 7	R10
				Xn; R20/21
				Xi; R38
2-methylpropan-1-ol	78-83-1	201-148-0	2	R10, , R67
				Xi; R41, R37/38
				R67

4. FIRST-AID MEASURES

First-aid measures	
General	: In all cases of doubt, or when symtoms persist, seek medical attention. Never give anything
	by mouth to an unconscious person.
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running clean fresh
	water for at least 15 minutes, keeping the eyelids open and seek medical attention.
Skin contact	: Remove contaminated clothing and shoes. Wash skin throughly with soap and water or use
	recognised skin cleanser. Do not use solvents or thinners.
Inhalation	: Remove to fresh air. Keep patient warm and at rest. If not breathing, if breathing is irregular
	or if respiratory arrest occures, provide artificial respiration or oxygen by trained personnel.
	Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.
Ingestion	: If accidentally swallow obtain immediate medical attention and show the container or label.
	Keep patient warm and at rest. Do not induce vomitting.

5. FIRE FIGHTING MEASURES

:	Recommended: alcohol-resistant foam, CO2, powders, water spray.
	Do not use - water jet.
:	Fire will produce dense black smoke. Exposure to decomposition products may cause a health
	hazard. Approprirate breathing apparatus may be required. Cool closed containers exposed to
	fire with water. Do not release runoff from fire to sewers or waterways.
	:



6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Remove sauces of ignition and ventilation the area, avoid breathing vapour or mist.

Do not turn lights or unprotected electrical equipment on or off.

Spill : Contain and absorb spillage with non-combustible material e.g. sand, earth, vermiculite.

Place in closed container outside building and disposal according to local regulation.

Preferably clean with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercauses.

If drain, lakes, river, or sewers are contimated, inform the appropriate authorities in

accordance with local regulations.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. HANDLING AND STORAGE

Storage

Handling : This coating contains solvents. Solvent vapours are heavier than air and may spread along floors. vapours may form explosive mixtures with air. Areas of storage, preparation and application

should be ventilated to prevent the creation of flammable or explosive concentrations of vapour

in air and avoid vapour concentrations higher than the occupational exposure limits.

In storage : Handle containers carefully to prevent damage and spillage.

Naked flames and smoking should not be permitted in storage areas. It is recommended that

fork lift trucks and electrical equipment are protected to the appropriate standard.

In use : Avoid skin and eye contact. Avoid inhalation of vapours and spray mists.

Observe label precaution. Put on appropriate personal protective equipment.

Smoking, eating and drinking should be prohibited in areas where this material is handled.

Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made

from the same material as the original one.

The product may charge electrostatically. Always use earthing leads when pouring solvents and transferring product. Operators should wear clothing which does not generate static and

antistatic footwear; floor should be conductive type.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is

unlikely to be sufficient to control particulates and solvent vapour in all case. In such circumstances they should wear a compressed air-fed respirator during the spraying process

and until such time as the particulates and solvent vapour concentration has fallen below

the exposure limits.

; Store in accordance with local regulation. Observe label precautions. Store in a cool,

well ventilated area away from incompatible materials and sauce of heat and direct sunlight.

Keep away from; oxidising agent, strong alkalis, strong acids.

Store on concrete or other impervious floor, preferably with bunding to contain any spillage.

Do not stack more than 3 pallets high.

Keep container tightly closed. Container that have been opened must be carefully resealed and

kept upright to prevent leakage.

Prevent unauthorised access.

This is highly flammable liquid. Refer to the requirements of local regulations for the storage

and handling regulations petaining to this material.



8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures

Provide adequate ventilation. Where resonably practicable, this should be achived by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the occupational exposure limits (OEL) suitable respirator must be worn.

Exposure Limits

Exposure standards are those provided by the ACGIH (American Conference of Government Industrial Hygenists).

Material	Occupational Exposure Limits				
<u>iviațeriai</u>	STEL-15 min.ave	Long term-TWA-8hr			
xylene	150 ppm	100 ppm			
2-methylpropan-1-ol	75 ppm	50 ppm			

Personal protection equipment

Respiratory Protection

Use a properly fitted, air-purifying or air-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.

When concentrations exceed the exposure limits shown above, worker must wear appropriate respirators. Provision of other control such as exhaust ventilation should be considered if practical.

Eye Protection

Wear safety eyeware, e.g. safety spectacles, goggle or visors to protect against the splash of liquids. Eyeware should comply with an approved standard.

Wear a full face shield if mixing or pouring operations pose a risk of splashes.

An eyewash station is suggested as a good work place practice.

Hands Protection

Gloves of an appropriate material should worn during mixing and application. For prolonged or repeated handling, use the following type of gloves: gloves; nitrile.

Barrier creams may help to protect the exposed areas of the skin but should not be applied

once exposure has occurred.

For right choice of glove materials, with focus on chemical resistance and time of penetration,

seek advice by the supplier of chemical resistant gloves.

Skin Protection

Overalls which cover the body, arms and legs should worn. Skinshould not be exposed.

Barrier creams may help to protect areas which are difficult to cover such as face and neck.

They should howerve not be applied once ecposure has occurred. Petroleum jelly based types Such as vaseline should not be used. All part of the body should be washed after contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	() Solid	(x) Liquid	Odour :	Smell of s	olvent		Density :	1.55	g/cm ³
	() Paste	() Powder	Colour :	Dark silve	er		Flash point	: 27	°C
Solubility: Insoluble in water Explosion limits: LEL% 1.7 UEL% 12.3									
Vapour pressure : 1170 Pa, 20 °C			Autoignitio	n tempera	ture :	427	°C		

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see section 8). When exposed to high teemperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxide of nitrogen ans smkoe.

Keep away from oxidising agents, strongly alkaline and strong acid materials in order to avoid possible exothermic reactions.



11. TOXICOLOGICAL INFORMATION

There are no data available on the product itself.

Exposure to solvent vapour concentration from the component solvents in excess of the state occupational exposure limits may result in adverse health effects such as mucous and membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, downsiness andin extream cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eye may cause irritation and soreness with possible reversibledamage.

12. ECOLOGICAL INFORMATION

There is no data available on the preparation itself.

Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

Aquatic ecotoxicity

Material name	Test	Result	Species	Exposure
xylene	Mortality	Actute LC50 3300 to 4093 u/L	Fish-Rainbow	96 hours.
		Fresh water	trout,donaldson-trout-	
			Oncorhynchus mykiss	
			trout,donaldson-trout-	
			Oncorhynchus mykiss	
2-methylpropan-1-ol	Intoxication	Acute LC50 1439000 to	Daphnia-Water flea-	48 hours.
		1933000 ug/L Fresh water	Daphnia magna.	
	Mortality	Actute LC50 133000 to	Fish-Rainbow	96 hours.
		152000 um/L Fresh water	trout,donaldson-trout-	
			Oncorhynchus mykiss	
Biodegradability				
Ingredient name		Aquatic half-life	Photolysis	Biodegradability
xylene		-	-	Readily

13. DISPOSAL CONSIDERATION

Method of disposal	:	Do not allow into drain or water courses. Wastes and empty containers should be disposal
		of in accordance with regulations made under the Control of Pollution Act and the
		Environmental Protection Act.
		Using information provided in this data sheet advice should be obtained from the Waste
		Regulation Authority, whether the special waste regulations apply.



14. TRANSPORT INFORMATION

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

International transport regulations

Proper shipping name : Paint
UN number : 1263
Class : 3
Packing group : III

Label :



Additional information

ADR / RID : Hazardous identification no. : 30

: Special provision : 640E

IMDG : Class : 3

Proper shipping name : Paint
Emergency schedules (EmS) : F-E, <u>S-E</u>
Marine pollutant : No

15. REGULATORY INFORMATION

The product complies with these local regulations.

EU regulations : The product is classified and labelled for supply in accordance with the Directive 1999/45/EC

as follows:

hazard symbol :



Harmfu

Risk phrases : R10 Flammable

R20/21 Harmful by inhalation and in contact with skin

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R67 Vapours mau cause drowsiness and dizziness.

Safety pharses : S23 Don not breathe vapour / spray.

S36/37 Wear suitable protective clothing and gloves.

Use only in well-ventilated areas.

Contains : Xylene

16. OTHER INFORMATION

CEPE Classification : 1

The information on this safety data sheet is based upon the present state of our knowledge and on current law.

The product should not be used for purposes other than shown in the product data sheet without first obtaining written advice.

It is always the responsibility of the user to take all necessary steps to meet the demands of applicable legislation.

The information in this Material Safety Data Sheet is required according to legislation.



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4. FIRST-AID MEASURES

First-aid measures	
General	: In all cases of doubt, or when symtoms persist, seek medical attention. Never give anything
	by mouth to an unconscious person.
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running clean fresh
	water for at least 15 minutes, keeping the eyelids open and seek medical attention.
Skin contact	: Remove contaminated clothing and shoes. Wash skin throughly with soap and water or use
	recognised skin cleanser. Do not use solvents or thinners.
Inhalation	: Remove to fresh air. Keep patient warm and at rest. If not breathing, if breathing is irregular
	or if respiratory arrest occures, provide artificial respiration or oxygen by trained personnel.
	Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.
Ingestion	: If accidentally swallow obtain immediate medical attention and show the container or label.
	Keep patient warm and at rest. Do not induce vomitting.

5. FIRE FIGHTING MEASURES

Extinguishing media	:	Recommended: alcohol-resistant foam, CO2, powders, water spray.
		Do not use - water jet.
Recommendation	:	Fire will produce dense black smoke. Exposure to decomposition products may cause a health
		hazard. Approprirate breathing apparatus may be required. Cool closed containers exposed to
		fire with water. Do not release runoff from fire to sewers or waterways.



6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Remove sauces of ignition and ventilation the area, avoid breathing vapour or mist.

Do not turn lights or unprotected electrical equipment on or off.

Spill : Contain and absorb spillage with non-combustible material e.g. sand, earth, vermiculite.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	() Solid	(x) Liquid	Odour :	Smell of so	lvent		Density :	0.97	g/cm ³
	() Paste	() Powder	Colour :	Clear yello	w		Flash point	: 27	°C
Solubility: Insoluble in water			Explosion l	imits :	LEL%	1.7	UEL%	12.3	
Vapour pressure : 1170 Pa, 20 °C		Autoignitio	n temperat	ure :	427	°C			

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see section 8). When exposed to high teemperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxide of nitrogen ans smkoe.

Keep away from oxidising agents, strongly alkaline and strong acid materials in order to avoid possible exothermic reactions.



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Material name	Test	Result	Species	Exposure
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		Fresh water	trout,donaldson-trout-	
			Oncorhynchus mykiss	
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2-methylpropan-1-ol	Intoxication	Acute LC50 1439000 to	Daphnia-Water flea-	48 hours.
		1933000 ug/L Fresh water	Daphnia magna.	
	Mortality	Actute LC50 133000 to	Fish-Rainbow	96 hours.
		152000 um/L Fresh water	trout,donaldson-trout-	
			Oncorhynchus mykiss	
Biodegradability				
Ingredient name		Aquatic half-life	Photolysis	Biodegradability
xylene		-	-	Readily

13. DISPOSAL CONSIDERATION

Method of disposal	:	Do not allow into drain or water courses. Wastes and empty containers should be disposal
		of in accordance with regulations made under the Control of Pollution Act and the
		Environmental Protection Act.
		Using information provided in this data sheet advice should be obtained from the Waste
		Regulation Authority, whether the special waste regulations apply.



14. TRANSPORT INFORMATION

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

International transport regulations

Proper shipping name : Paint
UN number : 1263
Class : 3
Packing group : III

Label :



Additional information

ADR / RID : Hazardous identification no. : 30

: Special provision : 640E

IMDG : Class : 3

Proper shipping name : Paint
Emergency schedules (EmS) : F-E, <u>S-E</u>
Marine pollutant : No

15. REGULATORY INFORMATION

The product complies with these local regulations.

EU regulations : The product is classified and labelled for supply in accordance with the Directive 1999/45/EC

as follows:

hazard symbol :



Harmfu

Risk phrases : R10 Flammable

R20/21 Harmful by inhalation and in contact with skin

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R67 Vapours mau cause drowsiness and dizziness.

Safety pharses : S23 Don not breathe vapour / spray.

S36/37 Wear suitable protective clothing and gloves.

Use only in well-ventilated areas.

Contains : Xylene

16. OTHER INFORMATION

CEPE Classification : 1

The information on this safety data sheet is based upon the present state of our knowledge and on current law.

The product should not be used for purposes other than shown in the product data sheet without first obtaining written advice.

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The information in this Material Safety Data Sheet is required according to legislation.