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	1.CHEMICAL PRODUCT I	NFORM	ATION		
Product Name	COILX5600BC ACCL-0011-8N RTW28S			Color	RTW28S
Application		8. Coa	atings and pai	nts, thinn	ers, paints removers
Manufacture	SAMHWA PAINTS IND.CO.,LTD.		Telephone NO.	82-31	- 499 - 0394
Address	178, Byeolmang-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Korea		Department		

### 2. HAZARDS IDENTIFICATION

- 1. Classification of the substance
- ① FLAMMABLE LIQUIDS category 4
- ② SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) category 2
- 3 SENSITIZATION SKIN category 1
- 4 CARCINOGENICITY category 1B
- ⑤ GERM CELL MUTAGENICITY category 1B
- 6 ACUTE TOXICITY (ORAL) category 2
- 7 ACUTE TOXICITY (DERMAL) category 5
- ACUTE TOXICITY (INHALATION-VAPOR) category 3
- 9 HAZARDOUS TO THE AQUATIC ENVIRONMENT(CHRONIC HAZARD) chronic 3
- 2.GHS warning label elements, including precautionary statements





① Symbol :

② Signal word: Danger

3 Hazard statements : Combustible liquid

May cause an allergic skin reaction

Toxic if inhaled

May cause cancer(state route of exposure if it is conclusively proven that no other routes of explosure cause the hazard)

May be harmful in contact with skin

May cause damage to organs(or state all organs affected, if known)(state route of exposure if it is conclusively proven that no other routes of explosure cause the hazard)

Harmful to aquatic life with long lasting effects

Fatal if swallowed

May cause henetic defects(state route of exposure if it is conclusively proven that no other routes of explosure cause the hazard)

4 Precautionary statements :

Prevention- Avoid breathing dust/fume/gas/mist/vapours/spray.

Do not handle until all safety precautions have been read and understood.

Wash...thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

Obtain special instructions before use.

Do not breathe dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a wellventilated area.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Response- Call a POISON CENTER or doctor/physician.

Take off contaminated clothing and wash it before reuse.

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④ Precautionary statements :

Response- IF exposed or concerned: Get medical advice/attention.

IF exposed: Call a POISON CENTER or doctor/physician.

Specific treatment (see on this label).

IF ON SKIN: Wash with plenty of water/...

If skin irritation or rash occurs: Get medical advice/attention.

Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

In case of fire: Use Suitable extinguishing media for extinction. (Refer Section MSDS 5)

Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Srore in a well-ventilated place. Keep container tightly closde.

Storage- Srore in a well-ventilated place. Keep Store in a well-ventilated place.

Store locked up.

Disposal- Dispose of contents/container to ralate laws and regulations.

#### 3.CHEMICAL COMPOSITION

Chemical Name	CAS NO.	Portion(%)	Remarks
Styrene, ethyl acrylate, 2-hydroxyethyl methacrylate, fumaric acid copolymer	97366-61-5	More than 11 ~ Under 20 %	
Methylated 1,3,5-triazine-2,4,6-triamine, formaldehyde polymer	68002-20-0	More than 11 ~ Under 20 %	
2-Propano I	67-63-0	More than 0.1 ~ Under 1 %	
Solvent naphtha (petroleum), light arom.	64742-95-6	More than 0.1 ~ Under 1 %	
Solvent naphtha (petroleum), heavy arom.	64742-94-5	More than 1 ~ Under 10 %	
Hexanedioic acid dimethyl ester	627-93-0	More than 1 ~ Under 10 %	
Methacrylic acid-methyl methacrylate-2-hydroxyethyl methacrylate-Styrene copolymer	52733-65-0	More than 51 ~ Under 60 %	
n-Butyl acetate	123-86-4	More than 1 ~ Under 10 %	
Pentanedicic acid, dimethyl ester	1119-40-0	More than 1 ~ Under 10 %	
Butanedioic acid dimethyl ester	106-65-0	More than 1 ~ Under 10 %	
Isobutylacrylate	106-63-8	More than 1 ~ Under 10 %	

### 4. HEALTH HAZARD INFORMATION

1. Eve contact

Wash off immediately with plenty of water, also under the eyelids, for at least 20 minutes. Call a physician immediately.

2. Skin contact

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#### 4.HEALTH HAZARD INFORMATION

Remove the contaminated clothes and the skin will be washed with water and soap.

Do not use solvents.

3. Inhalation

Move to fresh air and if he/she not breathes perform artificial respiration.

Consult a physician if necessary.

4. Ingestion

Do not induce vomiting unless it is indicated by medical personnel.

Never give anything by oral tract to an unconscious. Get medical attention if symptoms appear.

5. Note to physician

Very small quantities of the product reached in lungs may be fatale. Ingestion of the product may cause chemical irritation that may diffuse to lungs and cause edema. Check carefully the victim and apply intubations in all ingestion cases for all important amounts.

### 5.FIRE FIGHTING MEASURES

- 1. Flash point :68.7 ℃
- 2. Ignition temp: Not determined
- 3. Upper expolosion limit / Lower explosion limit : Not determined
- 4. The Fire Service Act : Fourth grade 2nd.Petroleum
- 5. Fire extinguisher: CO2. Powder. Halogen Fire extinguisher and Sand etc.
- 6. Fire and explosion Method of extinguishing and equipment:

Wear suitable protective equipment Use product with caution around heat, sparks, pilot lights, static electricity, and open flame.

Due to vapor is heavier than air, keep the distance from the ignition source pour into the fresh air.

Remove promptly flammable material. Put out a fire at once with prepared fire extinguisher.

7. Hazardous materials in combustion:

Could be generated complexed mixture like solid and gas containing CO, SO2 etc.

Unidentified organic and inorganic compound.

8. Extinguishing method which must not used for safety: Not applicable

#### 6.ACCIDENTAL RELEASE MEASURES

1. Personal precautions

Evacuate useless personnel, isolate the heat and flame sources, ventilate and wet the area if is possible.

All personnel must be protected against vapours inhalation and against skin and eyes contact.

2. Methods for cleaning up

Absorb with dry earth, sand or other non-combustible material and precede according decontamination regulation. Recovered product will be stored in metallic drums with removable lid or metallic containers, which will be sent to incineration.

3. Environmental precautions

Do not let the product to reach water, drain and earth. Prevent the extending in soil.

Prevent entry into sewers, basements or confined areas; dike if needed

### 7. HANDLING AND STORAGE

1. Handling

Avoid contact with skin or eyes. Use only up well-ventilated areas.

Avoid breathing vapor. Do not take internally. Take precautionary measures against static is charges.

2. Storage

The product must be kept in original container tightly closed. Store between 5~35°C in dry, well-ventilated

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### 7. HANDLING AND STORAGE

place away from source of heat, ignition and direct sunlight.

Solvent vapours are heavier than air and spread along floors. Vapours may form explosive mixtures. No smoking.

3. Other precautions

Emergency showers and eye wash stations should be readily accessible.

Adhere to work practice rules established by government regulations

### 8.EXPOSURE CONTROLS/PERSONAL PROTECTION

1. Exposure limit values

Chemical Name	Cas No	Interior provision	ACGHI
Styrene, ethyl acrylate, 2-hydroxyethyl methacrylate, fumaric acid copolymer	97366-61-5	No data	No data
Methylated 1,3,5-triazine-2,4,6-triamine, formaldehyde polymer	68002-20-0	No data	No data
2-Propanol	67-63-0	TWA: 200 ppm 480 mg/m³ STEL: 400 ppm 980 mg/m³	STEL 400 ppm TWA 200 ppm
Solvent naphtha (petroleum), light arom.	64742-95-6	No data	No data
Solvent naphtha (petroleum), heavy arom.	64742-94-5	No data	No data
Hexanedioic acid dimethyl ester	627-93-0	No data	No data
Methacrylic acid-methyl methacrylate-2-hydroxyethyl methacrylate-Styrene copolymer	52733-65-0	No data	No data
n-Butyl acetate	123-86-4	TWA : 150 ppm 710 mg/m³ STEL : 200 ppm 950 mg/m³	TWA 150 ppm
Pentanedioic acid, dimethyl ester	1119-40-0	No data	No data
Butanedioic acid dimethyl ester	106-65-0	No data	No data
Isobutylacrylate	106-63-8	No data	No data

2. Environmental exposure control

Technical conditions regarding atmosphere protection. Determination of pollutants emission produced by stationary sources rules.

- 3. Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment
- 4. Eye protection: Wear eye/face protection such as chemical goggles or face shield
- 5. Hand protection: For prolonged or repeated contact use solvent protective gloves. Barrier reams may help to protect the exposed areas of hand. However they should not be applied once exposure has occurred. Hand should be washed after contact
- 6. Skin protection: Personnel should wear protective clothing and antistatic footwear.
- 7. Additional: Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

1. Appearance : colored and transparent liquid

2. Odor : solvent specific

3. pH: Not applicable

4. Solubility: Water-insoluble

5. Boiling point : No data

6. Melting point : No data

7. Explosive properties: No data

8. Oxidising properties: No data

9. Vapor pressure : No data

10. Specifice gravity: 1.016

11. Partition coefficient: No data

12. Vapor density: No data

13. Viscosity(25°C):  $110 \pm 15$ 

14. Molecular weight: No data

### 10.STABLITY AND REACTIVITY

1. Chemical stability

The product is stable if is kept in original recipient and according with recommendation.

2. Condition to avoid

Avoid all possible sources of heat, electrostatic discharges, ignition(spark or flame).

Avoid storage at temperature higher than 35°C and direct exposure in the sunlight.

3. Materials to avoid

Strong oxidative substances, strong acid, and alkaline solutions may give exothermic reactions in contact with this product.

4. Hazardous decomposition products

Thermo oxidative decomposition gives carbon monoxide, carbon dioxide, nitrogen oxides and a dense smoke, which contain other unidentified decomposition products. If this product is heated up to its decomposition temperature may lead to explosion.

#### 11.TOXICOLOGICAL INFORMATION

1. Toxicity Information

LD50.Oral	LD50.Skin	LD50.Inhlation (gas)	LD50.Inhlation (vapour)	LD50.Inhlation (mist)
No data	No data	No data	No data	No data
LD50 12.3 ml/kg Rat	No data	No data	No data	No data
LD50 = 4710mg/kg Rat	LD50 = 12870 mg/ kg rabbit	해당없음	LC50 = 72600 mg/l 4 hr Rat	해당없음
LD50 = 8400 mg/kg Rat	LD50 > 2000 mg/ kg Rabbit	NO DATA	LC50 = 5.160 mg/l 4 hr Rat	NO DATA
LD50 > 5000 mg/kg Rat	LD50 > 2000 mg/ kg Rabbit	NO DATA	NO DATA	NO DATA
LD50 = 1920 mg/kg Rat	No data	No data	No data	No data
No data	No data	No data	No data	No data
	No data  LD50 12.3 ml/kg Rat  LD50 = 4710mg/kg Rat  LD50 = 8400 mg/kg Rat  LD50 > 5000 mg/kg Rat  LD50 > 1920 mg/kg Rat	No data	No data  LD50 = 4710mg/kg	No data  No data

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11.TOXICOLOGICAL INFORMATION					
1. Toxicity Information					
Chemical Name	LD50.Oral	LD50.Skin	LD50.Inhlation (gas)	LD50.Inhlation (vapour)	LD50.Inhlation (mist)
n-Butyl acetate	LD50 = 13100 mg/ kg Rat	LD50 > 17600 mg/ kg Rabbit	자료없음	LD50 > 21.1 mg/kg Rat	자료없음
Pentanedioic acid, dimethyl ester	LD50 = 1920 mg/kg Rat	LD50 = 8500 mg/ kg Rat	해당없음	자료없음	해당없음
Butanedioic acid dimethyl ester	LD50 > 5000 mg/kg Rat	LD50 > 5000 mg/ kg Rabbit	No data	No data	No data
Isobutylacrylate	LD50 = 4895 mg/kg Rat	LD50 = 800 mg/kg Rabbit	Steam LC50 = 10.59 mg/l 4 hr Rat	Steam LC50 = 10.59 mg/l 4 hr Rat	Steam LC50 = 10.59 mg/l 4 hr
	1				

1. Ecological Information			
Chemical Name	LC50.fish	LC50.water fleas	LC50.algea
Styrene, ethyl acrylate, 2-hydroxyethyl methacrylate, fumaric acid	No data	No data	No data

12.ECOLOGICAL INFORMATION

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Styrene, ethyl acrylate, 2-hydroxyethyl methacrylate, fumaric acid copolymer	No data	No data	No data
Methylated 1,3,5-triazine-2,4,6-triamine, formaldehyde polymer	No data	No data	No data
2-Propano I	LC50 > 100 mg/l 96 hr	자료없음	EC50 = 2.2 mg/l 96 hr
Solvent naphtha (petroleum), light arom.	LC50 = 9.22 mg/ l 96 hr	EC50 = 6.14 mg/l 48 hr Daphnia magna	EC50 = 19 mg/l 72 hr
Solvent naphtha (petroleum), heavy arom.	LC50 = 45 mg/l 96 hr Pimephales	EC50 = 0.95 mg/l 48 hr Daphnia magna	EC50 = 2.5 mg/ l 72 hr
Hexanedioic acid dimethyl ester	LC50 = 87.095 mg/ & 96 hr	No data	EC50 = 6.691 mg/ & 96 hr (No
Methacrylic acid-methyl methacrylate-2-hydroxyethyl methacrylate-Styrene copolymer	No data	No data	No data
n-Butyl acetate	LC50 = 62 mg/ l 96 hr	LC50 = 32 mg/ l 48 hr	No data
Pentanedioic acid, dimethyl ester	LC50 = 13400 mg/ & 96 hr	EC50 = 3940 ~ 4670 mg/l 48 hr Daphnia	No data
Butanedioic acid dimethyl ester	LC50 = 50 ~ 100 mg/l 96 hr	LC50 = 3317.276 mg/ & 48 hr	EC50 = 11.917 mg / l 96 hr
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12.ECOLOGICAL INF	ORMATION		
1. Ecological Information			
Chemical Name	LC50.fish	LC50.water fleas	LC50.algea
Isobutylacrylate	LC50 = 2.09 mg/l 96 hr Pimephales	LC50 = 9.7 mg/l 48 hr Daphnia magna	EC50 = 3.18 mg/ \$\llow{\ell} 72 hr

2. Soil mobility: Not known

3. Persistence and degradability

There is no specific data available on the product itself. The product should not be allowed to enter drains or watercourses or be deposited where they can affect ground or surface waters.

4. Potential bioaccumulation : Be possible.

#### 13.DISPOSAL CONSIDERATION

Relevant insurance of legislation
 Dispose of in accordance with local regulations

2. Waste removal measures

Waste must be disposed of in accordance with state and local environmental regulations.

3. Direction for the waste disposal

Preferred options for disposal are recycling, incineration with energy recovery, and landfill.

#### 14.TRANSPORT INFORMATION

- 1. Classification by shipping transportaiton dangerous substance and regulation of storage :
- 2. Direction for transport

The product must be kept in original container tightly closed and transport at normal temperature.

3. International Martitie Dangerous Goods Code

U.N Number : Not Applicable Shipping name : Not Applicable

Hazard class : Not Applicable
Packing group : Not Applicable

4. Marine pollutant : Not Applicable

5. Special precautions for user related to transport or transportation measures

● Ems FIRE SCHEDULE : F-E● Ems SPILLAGE SCHEDULE : S-E

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#### 15.REGULATORY INFORMATION

- 1. Article of KOREA OCCUPATIONAL SAFETY \_HEALTY AGENCY : Not determined. Water-insoluble
- 2. Article of Harmful Chemical Substance :
- 3. Classify of The Fire Service Act : Fourth grade 2nd.Petroleum

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### 16.0THER INFORMATION

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the data of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release is not to be considered a warranty or quality specification

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This information is based on technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.