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# Material Safety Data Sheet JUNGBU ESCHEM CO., LTD.

IDENTITY (As used on label and list)

Pre. Date : 25 July, 2018

UVICHEM CVM890SH TOP CLEAR(UPGRADE)

Rev. Date : Version :

SECTION 1. Product & Company identification

Manufacture's Name: JUNG BU ESCHM CO., LTD.

Address: 496, SHINBONG-RI, YEONIN-MYEON, ASAN-CITY, CHUNGNAM, KOREA

Product Name: UVICHEM CVM890SH TOP CLEAR(UPGRADE) Fax. No.: +(82-32)676-2682

# SECTION 2. Composition/Information on Ingredients

CAS No.	Conc.% (W/W)
141-78-6	5 ~ 15
123-86-4	5 ~ 15
108-10-1	5 ~ 15
-	1 ~ 5
_	20 ~ 30
_	15 ~ 25
-	15 ~ 25
-	0 ~ 1
	141-78-6 123-86-4

#### SECTION 3. Hazards Identification



## **INHALATION**

 May cause sore throat and difficulty breathing.

#### SKIN CONTACT

- may cause mild irritation.

#### **EYE** contact

- may cause redness and swelling of the eyes. INGESTION
- may cause vomiting, diarrhea and stomach pain.

- Other hazardous components.
- When inspirations, body temperature may be increased, breathing-difficulties, blue-skins and lung-damages may be incurred.
- Hazardous informations on product
- : no tests for product stability.

#### SECTION 4. First-Aid Measures

Skin Contact	Eye Contact	Inhalation	Ingestion
Remove contaminated	Wash eyes immediately	Remove from exposure	If vomiting occurs, keep
clothing and shoes	with large amounts of	area to fresh air im-	head lower than hips to
immediately. Wash with	water or normal saline,	mediately. Perform ar-	help prevent aspiration.
soap or mild detergent and	occasionally lifting up-	tificial respiration if	Treat symptomatically
large amounts of water until	per and lower lids, until	necessary. Keep per-	and supportively.
no evidence of chemical	no evidence of chemical	son warm and at rest.	
remains. Get medical	remains.	Treat symptomatically	
attention immediately.		and supportively. Get	
		medical attention im-	
		mediately.	

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- If abnormal bad symptoms going on, Consult immediately with the doctor.
- No food-stuffs available when unconscious patients.
- ♠ Informations for doctor.
- No specified antidote.
- Treat symptomatically and supportively.

SECTION 5. F	. Fire-Fighting measures					
Fire & Explosion hazard			Fire extinguishing media			
Medium fire hazard when exposed to heat or flame. It may be exploded when mixed vapor and air. The vapors can be exploded after moving far away from the fire-sources.		water for later disposal (1993 Emergency Response Guidebook, RSPA P5800.6, Guide				
Flash point	28.0℃	Explosion	MAX:N/A	Page 31)		
Ignition point	N/A	limit	MIN:N/A			
Hazardous ingredients when burnings.	NOx, CO, SO2, etc. unknown organic/inorganic ashes.			Use agents suitable for type of surrounding fire. Avoid breathing hazardous vapours, keep upwind.		
Class of fire-fighting	_			Useless _ extinguishing agents.		

#### (1) OCCUPATIONAL SPILL

- Stop leak if you can do it without risk. For small spills, take up with sand or other absorbent material and place into clean, dry containers for later disposal. Keep unnecessary people away. Isolate hazard area and deny entry.

#### (2) WATER SPILL

SECTION 6.

- The California Safe Drinking Water and Toxic Enforcement Act of 1986 prohibits contaminating any known source of drinking water with substances known to cause cancer and/or reproductive toxicity.

#### (3) OTHERS

- Escape from the confined space in which leakages are incurred. When trying to come into the confined spaces, be sure about no-explosion therein.

Supply sufficient of fresh air and operates mechanical ventilations.

Accidental Release Measures

Where large scale of leakages, keep properly store those leaked components by sand-bags and/or building of sand-banks etc.

SECTION 7. Handling & Storage	
HANDLING.	STORAGE AND PRECAUTIONS.
<ul> <li>To ventilate and/or supply sufficient fresh air in order To prevent explosions by accumulated solvent-vapours.</li> <li>Avoid contact with skin, eyes, mist-vapours and</li> </ul>	along with the bottom areas. - the vapours may be exploded when mix-up

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- Take personal equipments as per section-8 with|or turn-off and tear-off. warning marks. Do not handle fire-sources and/or smokings in Do not take waters, foods and smokings in the the storage. - Store in a dry and cool areas, having no direct storages and warehouses. Take off all electric plugs, fire-sources and spark-|sunlights, with good ventilations. sources. Always employee explosion-proof type Always connect earth-plug when movement of lighting equipments and fork-lifts. products or pouring of solvents. SECTION 8. **Exposure Controls/Personal Protection** Exposure prevention method Personal equipment & putting method (1) Respiratory organ protection. Partial ventilations and/or proper vents To be To put on with toxic-proof mask, air-supply operated. masks for breathing organ protections. ΑII ventilation systems/equipments To (2) Eyes protection. explosion-proof ones. To always put on eye-protection glasses. Where no ample supplies of fresh air in the (3) Hand protection. storages/warehouses, proper breathing apparatus To Always put on proper gloves for agitations and be taken. handling. (4) Body protection. Do not expose your hands, arms, bodies directly **Emergency washes** to vapours and polluted air. Always stand-by emergent wash tools and It shall be very helpful for you to take skinare protection lotions on your face and neck, where equipments. Where such solvent-vapours vaporized, and/or skins/eyes To be easily exposed used to be easily exposed. Do not use Vaselines made of petroleum-ielly. To such vapours. SECTION 9. Physical & Chemical Properties (1) Appearance liauid (2) Odor Irritating odor (3) pH N/A (4) Solubility N/A (5) Boiling point N/A N/A (6) Melting point N/A (7) Explosion (8) Oxidation N/A (9) Vapor pressure Vapors are Heavier than Air (10) SP/GR(25℃)  $0.95 \pm 0.02$ 60±2 KU (11) Viscosity(25℃) SECTION 10. Stability & Reactivity Stable at normal temperatures, pressures, and in a closed (1) Chemical stability container. Strong-acids, Strong-alkalis, Strong-oxidizers (2) Materials to be avoided Others Thermal decomposition products may include toxic and (3) Hazardous decomposition hazard fumes of hydrogen chloride and oxides of carbon.

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# (4) Toxic components when reactions(Temp & lights)

Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

#### SECTION 11. Disposal consideration

- To abide by authority's requirements and regulations.
- Don't throw into drainage and river.
- To dispose the empty cans and wastes as per regulations.

#### SECTION 12. Toxicological information

- May affect to liver, kidney and central nerve systems when exposed in excess of the allowable concentration.
- May cause head-aches, vomiting, dizziness, tiredness and sleepiness, and rarely cause unconsciousness.
- Possibly, dry-skins and non-allergy skin disease may be experienced when repeated and consecutive handling.
- Some curable aches and/or irritations will be experienced when affect to eyes with liquids.

#### SECTION 13. Ecological information

- (1) Environmental hazards: air-pollution, water-pollution, soil-pollution, sea-pollution.
- (2) To be careful for handling as effects to environments when leakages/disposal.
- (3) Remains and Decomposition: It does not decompose rapidly. Major components may be remained with products in the environment and some part of them may be vapourized.
- (4) Accumulations in animals and plants: may be accumulated in physical body.

# SECTION 14. Transport information

United Nations classification: Class 3/ grade III/ inflammability liquid

United Nations number: 1263(paint)

Land transportation: [Carriage container]Use carriage containers specified by Fire

Defence Law.

[Container indication]Indicate required terms such as classification number,commodity, quantity, notices, and so

on of Fire Defence Law.

[Loading method]Mixed loading with substances of Dangerous Articles 1 or 6category and which may cause disaster is strictry prohibited.Load to avoid overturm, fall or

damage and make sure toprevent load collapse.

[Others] In case of transportation by vehicles and so on, the consi-gner shall issue a yellow card to the transporter.

Follow clauses specifide in Law for Safety of Vessels.

Follow clauses specifide in Aviation Law.

## SECTION 15. Regulatory information

Domestic regulations Domestic and Foreign laws

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- Product name, component and ingredients, physical effects, storages, precautions and emergent action/disposals as per "Industry Safety & Health Act" article 39.
- Industry Safety & Health Act-41.
- Fire-Fighting Act 4.

[USA] - TSCA

- CERCLA Art.-103.
- SARA #302/304/313.
- SARA #311/312.
- California proposal-65.

#### SECTION 16. Other information

- This MSDS informations are based upon the Ministry of Labour regulation No. 1966-12, Industry Safety & health Act, Fire-fighting Act and our knowledges.
- References.
- -MSDS Data: Ministry of Labour No. 96-12 of April/1996.
- -MSDS translation guideline.
- -Industry Safety Guide Book. (Ministry of labor, Dec/1994).
- -Toxic material index. (Aug/1990).
- -MSDS compiling guides. (Feb/1996).
- It requires sufficient precautions as the MSDS informations are not perfect.
- It is to be understood that the MSDS informations are only based upon to the best of our belief and knowledges and, thus, the MSDS informations are not for our undertakings of their correctness and safety.
- As all chemical materials have latent and unconfirmed toxic components, they have to handle and/or treat with utmost keen attentions and due delicate precautions.
- The MSDS informations are subject to change with or without prior notices.