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| 遠瑞實業股份有限公司 FARBRAVE CO., LTD. |  | FARSMART CO., LTD. |
| 臺北市內湖區基湖路35巷51號8樓 TEL：886-2-2798-7896 FAX：886-2-2798-7897 8F., No.51, Ln. 35, Jihu Rd., Neihu Dist., Taipei City 11492,Taiwan (R.O.C.) | | |

Safety Data Sheet

FARLON XF-5010  *Version-6: 2018.01.24*

1. IDENTIFICATION OF THE SUBSTANCE/PRREPARATION AND OF THE COMPANY/UNDERTAKING

***Trade name:***  FARLON XF-5010

***Uses:*** Water Repellent for Textiles

***Supplier:*** FARSMART CO.,LTD

8F., No.51, Ln. 35, Jihu Rd., Neihu Dist., Taipei City 11492,

Taiwan (R.O.C.)

TEL:886-2-27987896 Fax:886-2-27987897

***Manufacturer****:* DAIKIN INDUSTRIES, LTD. CHEMICALS DIVISION

Umeda Center Bldg., 4-12, Nakazaki-Nishi 2-chome, Kita-Ku, Osaka,

JAPAN TEL: (+81) 6-6373-4345 Fax: (+81) 6-6373-4281

2. HAZARDS IDENTIFICATION

*2.1 Classification of the substance or mixture Classification according to Regulation (EC) No*

*1272/2008*

*The product is not classified according to the CLP regulation.*

***2.2 Label elements Labelling according to Regulation (EC) No 1272/2008:***

*Not applicable*

*Signal word: Not applicable*

3. Composition/information on ingredients

*Chemical characterization*

%wt CAS No.

*Acrylate polymer 10-20% -*

*Polyoxyethylenealkylether (C=12-15 and their mixture) <3% -*

*Xn R22; Xi R36/38*

*Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319*

*Tripropylene glycol <5% 24800-44-0*

*Alcohols, C11-14-iso-, C13-rich, ethoxylated < 3% -*

*Xi R36; F R11*

*R67*

*Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336*

*Water 70-80% 7732-18-5*

*Others <5% \_*

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

4. FIRST AID MEASURES

*4.1 Description of first aid measures*

*General information: Seek medical treatment.*

*After inhalation: supply fresh air; consult doctor in case of complaints.*

*After skin contact: Immediately wash with water and soap and rinse thoroughly.*

*Remove contaminated clothes immediately.*

*After eye contact:*

*Immediately rinse with a lot of water for several minutes.*

*Remove contact lenses if possible. Continue rinsing.*

*After swallowing: Rinse mouth with water. Do not induce vomitting.*

*4.2 Most important symptoms and effects, both acute and chronic:*

*No further relevant information available.*

*4.3 Indication of any immediate medical attention and special treatment needed:*

*No further relevant information available.*

5. FIRE-FIGHTING MEASURES

*5.1 Extinguishing media*

*Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding*

*conditions.*

*For safety reasons unsuitable extinguishing agents: No further information available.*

***5.2 Special hazards arising from the substance or mixture:***

*Formation of toxic gases is possible during heating or in case of fire.*

***5.3 Advice for firefighters:***

*Protective equipment:*

*Wear self-contained breathing apparatus and protective suit.*

*Do not inhale explosion gases or combustion gases.*

*Wear fully protective suit.*

6. ACCIDENTAL RELEASE MEASURES

***6.1 Personal precautions, protective equipment and emergency procedure:***

*Ensure adequate ventilation before entering the area.*

*Keep out unauthorised persons.*

*Wear appropriate protective devices (See Section 8 Exposure Controls/ Person Protection).*

*Avoid contact with eyes and skin.*

*Do not swallow the product.*

***6.2 Environmental precautions:*** *Prevent seepage into sewage system, workpits and cellars.*

***6.3 Methods and material for containment and cleaning up:***

*For a small amount of leakage:*

*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders) or collect in an empty container that can be sealed tightly.*

*For a large amount of leakage:*

*Enclose with banks to avoid outflow. Lead the leakage to a safe place and collect.*

***6.4 Reference to other section:***

*See Section 7 for information on safe handling.*

*See Section 8 for information on personal protection equipment.*

*See Section 13 for disposal information.*

7. HANDLING AND STORAGE

***7.1 Precautions for safe handling:***

*Prevent formation of aerosols.*

*Ensure good ventilation/exhaustion at the workplace.*

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

*Install extractors.*

*Information about fire-and explosion protection: Keep ignition sources sway- Do not smoke.*

***7.2 Condition for safe storage, including any incompatibilities:***

***Storage***

***Requirement to be met by storerooms and receptacles:***

*Store in a cool and dry location.*

*Provide solvent resistant, sealed floor.*

*Keep receptacle tightly sealed.*

***Information about storage in one common storage facility:***

*See section 10 for information on incompatible materials.*

***Further information about storage condition:***

*Protect form heat and direct sunlight.*

*Store receptacle in a well ventilated area.*

*Store locked up.*

***7.3 Specific end use(s):***

*No further relevant information available. *

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

***Additional information about design of technical facilitates****: No further data; see item 7.*

***8.1 Control parameters***

*Ingredients with limit values that require monitoring at the workplace:*

*The product does not contain any relevant quantities of materials with critical values that*

*have to be monitored at the workplace.*

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

***8.2 Exposure controls***

*Personal protective equipment*

*General protective and hygienic measures:*

*Wash hands before breaks and at the end of work.*

*Do not eat or drink while working.*

***Respiratory protection:***

*Use respiratory protective device with filters for organic and acid gas (or airline respirators*

*in some cases) if formation of toxic gases is possible while the product is heated.*

***Protection of hands:*** *Protective gloves*

***Eye protection:*** *Safety glasses*

***Body protection:*** *protective work clothing.*

9. PHYSICAL AND CHEMICAL PROPERTIES

***9.1 Information on basic physical and chemical properties***

*General Information:*

***Appearance***

*Form: Liquid*

*Color: Light yellow- white*

*Odour: Odourless*

*Odour threshold: Not determined.*

*pH-value at 20°C: 3.0 - 5.0*

*Melting point/ Melting range: No further information available.*

*Boiling point/ Boiling range: 100°C*

*Flash point: Not applicable*

*Flammability (solid, gaseous): Not applicable*

*Ignition temperature:*

*Decomposition temperature: No further information available.*

*Self-igniting: Product not self igniting*

*Danger of explosion: Product does not present an explosion hazard.*

*Lower explosive limit: No further information available.*

*Upper explosive limit: No further information available.*

*Vapour pressure: No further information available.*

*Density: 1.01@25°C*

*Relative density: Not determined.*

*Vapour density: Not determined.*

*Evaporation rate: Not determined.*

*Solubility in / Miscibility with water: No further information available.*

*Partition coefficient (n-octanol/water): No further information available.*

*Viscosity:*

*Dynamic: Not determined.*

*Kinematic: Not determined.*

***9.2 Other information:*** *No further relevant information available.*

10. STABILITY AND REACTIVITY

***10.1 Reactivity***

***10.2 Chemical Stability***

*Thermal decomposition / conditions to be avoided:*

*To avoid thermal decomposition do not overheat.*

***10.3 Possibility of hazardous reactions:***

*No dangerous reactions known under normal condition of use.*

***10.4 Conditions to avoid:*** *No further relevant information available.*

***10.5 Incompatible materials:*** *No further relevant information available.*

***10.6 Hazardous decomposition products:*** *Hydrogen chloride (HCI)*

*Decomposition products differ depending on the temperature and conditions.*

11. TOXICOLOGICAL INFORMATION

*11.1 Information on toxicological effects*

*Acute toxicity*

*LD/LC50 values relevant for classification:*

*Oral LD50> 2000mg/kg (Rat)*

*Primary irritant effect*

*On the skin: Slight Irritant*

*On the eye: Slight irritant effect.*

*After inhalation: No further information available.*

*Sensitization: No sensitizing effect.*

***Additional toxicological information:***

*The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:*

***General effects****: Fumes generated during burning may cause "polymer fume fever" (flu-like symptons such as fever, chill, cough). This may last for a whole day and night. Fumes are not absorbed in skin. No sensitizing effect known.*

40.0.1  ***CMR effects***

*Germ cell mutagenicity: Ames Assay- Negative.*

*Carcinogenicity: No further information available.*

*Reproductive toxicity: No further information available.*

*Aspiration hazard: No further information available.*

*Specific target organ toxicity - single exposure: No further information available.*

*Specific target organ toxicity - repeated exposure: No further information available.*

12. ECOLOGICAL INFORMATION

***12.1 Toxicity***

*Aquatic toxicity: No further relevant information available.*

*12.2 Persistence and degradability:*

*Biodegradation (Alga) (non GLP)*

*Biodegradable*

*12.3 Bioaccumulative potential: No further relevant information available.*

*12.4 Mobility in soil: No further relevant information available.*

*Other information*

*Bacterial Acute Tox > 3000mg/L non-GLP*

*Alga Actue Tox 13.2mg/L (48Hr) 12.2mg (72Hr) non-GLP*

*Ecotoxical effects: no data*

*12.5 Result of PBT and vPvB assessment*

*PBT: No further relevant information available.*

*vPvB: No further relevant information available.*

*12.6 Other adverse effects: No further relevant information available.*

13. DISPOSAL CONSIDERATIONS

***13.1 Waste treatment methods***

***Recommendation:*** *Disposal must be made according to official regulations.*

***Uncleaned packaging***

***Recommendation:*** *Disposal must be made according to official regulations.*

14. TRANSPORT INFORMATION

***14.1 UN-Number:*** *Not applicable.*

*ADR, IMDG, IATA*

***14.2 UN proper shipping name:*** *Not applicable.*

*ADR, AND, IMDG, IATA*

***14.3 Transport hazard class(es):*** *Not applicable.*

*ADR, AND, IMDG, IATA*

*Class: Not applicable.*

***14.4 Packing group:*** *Not applicable.*

*ADR, IMDG, IATA*

***14.5 Environmental hazards:***

*Marine pollutant: No*

***14.6 Special precautions for user:*** *Not applicable.*

***14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:***

*Not applicable.*

***Transport/Additional information:***

*Avoid direct sunlight. Make sure of no damage, corrosion, leaks on the receptacles.*

*Take necessary measures for preventing cargo shift.*

***UN “Model Regulation”:*** *-*

15. REGULATORY INFORMATION

***15.1 Safety, health and environmental regulations/ legislation specific for the substance or***

***mixture:*** *No further relevant information available.*

***Labelling according to Regulation (EC) No 1272/2008:*** *Not applicable.*

***Hazard pictograms:*** *Not applicable .*

***Signal word :*** *Not applicable.*

***Hazard statements:*** *Not applicable.*

***National regulations:*** *No further information available.*

***Other regulations, limitations and prohibitive regulations:*** *No further information available.*

16. OTHER INFORMATION

*The product is for the industrial use only. We do not guarantee the safety in case the product is used for the other purposes. When using the product for health-care application or food/feed application, consult us in advance. 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.*

***Department issuing SDS:*** *EHS Department*

***Contact:*** *http://www.farsmart.com.tw*

***Abbreviations and acronyms:***

*RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*IATA-DGR: Dangerous Goods Regulations by the “International Air Transport Association” (IATA)*

*ICAO: International Civil Aviation Organization*

*ICAO-TI: Technical Instructions by the “International Civil Aviation Organization” (ICAO)*

*ADR: Accord européen sur le transport 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 Harmonized System of Classification and Labelling of Chemicals*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C*

*Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2*