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MATERIAL SAFETY DATA SHEET

FORMULA CROWN WINDSHIELD FLUID (WF - 12)

WARNING! HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN.
MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.
AFFECTS CENTRAL NERVOUS SYSTEM.

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SECTION 1 - IDENTIFICATION

PRODUCT : CROWN WINDSHIELD WASHER FLUID

SYNONYMS : CROWN WF-12

CHEMICAL FAMILY : WINDSHIELD WASHER FLUID

FORMULA : Not applicable/Mixture

USE DESCRIPTION : WINDSHIELD WASHER FLUID(WF-12)

CAS RN : Mixture - no single CAS number applicable

SECTION 2 - HAZARDS IDENTIFICATION

THE OTHER HAZARDS NON-INCLUDED ON STANDARD OF CLASSIFICATION OF HAZARDS

NFPA RATINGS COMPONENTS	HEALTH	FLAMMABILITY	REACTIVITY
METHYL ALCOHOL	2	3	0
WATER	0	0	0
DIOCTYL SODIUM SULFOSUCCINATE	3	1	0
METHYL -1H- BENZOTRIAZOLE	1	1	0

POTENTIAL HEALTH EFFECTS

- INHALATION

Vapor inhalation is generally not a problem unless heated or misted. Exposure to vapors over an extended time period has caused throat irritation and headache. May cause nausea, vomiting, dizziness and drowsiness. Pulmonary edema and central nervous system depression may also develop. When heated or misted, has produced rapid, involuntary eye movement and coma.

- INGESTION

Initial symptoms in massive dosage parallel alcohol intoxication, progressing to CNS depression, vomiting, headache, rapid respiratory and heart rate, lowered blood pressure, stupor, collapse, and unconsciousness with convulsions. Death from respiratory arrest or cardiovascular collapse may follow.

Lethal dose in humans: 100 ml (3-4 ounces).

- SKIN CONTACT

Minor skin irritation and penetration may occur.

- EYE CONTACT

Splashes may cause irritation, pain, eye damage.

- CHRONIC EXPOSURE

Repeated small exposures by any route can cause severe kidney problems. Brain damage may also occur. Skin allergy can develop. May damage the developing fetus.

SECTION 3 - COMPOSITION AND INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION

DESCRIPTIVE NAME : METHYL ALCOHOL

CAS NUMBER : 67-56-1

EC EINECS : 200-659-6

PERCENTAGE : 5 ~ 15

PRODUCT COMPOSITION

DESCRIPTIVE NAME : WATER

CAS NUMBER : 7732-18-5

EC EINECS : -

PERCENTAGE : 85 ~ 95

PRODUCT COMPOSITION

DESCRIPTIVE NAME : DIOCTYL SODIUM SULFOSUCCINATE

CAS NUMBER : 577-11-7

EC EINECS : -

PERCENTAGE : 0.1 ~ 0.3

PRODUCT COMPOSITION

DESCRIPTIVE NAME : METHYL -1H-BENZOTRIAZOLE

CAS NUMBER : 29385-43-1

EC EINECS : -

PERCENTAGE : 0.1 ~ 0.3

SECTION 4 - FIRST AID MEASURES

- INHALATION

Remove to fresh air. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen. Call a physician.

- INGESTION

Induce vomiting immediately as directed by medical personnel.

Never give anything by mouth to an unconscious person. Get medical attention.

- SKIN CONTACT

Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes.

Get medical attention if irritation develops or persists.

- NOTE TO PHYSICIAN

Give sodium bicarbonate intravenously to treat acidosis. Urinalysis may show low specific gravity, proteinuria, pyuria, cylindruria, hematuria, calcium oxalate, and hippuric acid crystals. Ethanol can be used in antidotal treatment but monitor blood glucose when administering ethanol because it can cause hypoglycemia. Consider infusion of a diuretic such as mannitol to help prevent or control brain edema and hemodialysis to remove ethylene glycol from circulation.

SECTION 5 - FIRE FIGHTING MEASURES

FIRE :

Flash point: Beyond 62 °C (C.C.) / measurement method : Open system

Autoignition temperature: 385 °C

Flammable limits in air % by volume: Iel: No data

FIRE AND EXPLOSION HAZARDS :

Hazardous combustion products: Carbon monoxide (CO). Carbon dioxide (CO₂).

FIRE EXTINGUISHING MEDIA :

Dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Water spray may be used to extinguish surrounding fire and cool exposed containers. Water spray will also reduce fume and irritant gases.

SPECIAL INFORMATION :

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Toxic gases and vapors may be released if involved in a fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS :

Wear necessary protective equipment. See section 8.

ENVIRONMENTAL PRECAUTIONS :

Inform Authorities if large amounts are involved. The product is soluble in water.

CLEANING MEASURES :

Absorb in vermiculite, dry sand or earth and place into containers. Ventilate well. Dilute with copious amounts of water. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. For disposal methods see section 13.

SECTION 7 - HANDLING AND STORAGE

HANDLING :

Avoid spilling, skin and eye contact.

STORAGE :

Keep in cool, dry, ventilated storage and closed containers.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS :

Methyl alcohol

Internal regulation : TWA(Time-weighted average) : 200ppm, 260 mg/m³

ACGIH Short-Term Exposure Limit (STEL):

200ppm (260 mg/m³) OSHA

200ppm ACGIH TWA

250ppm ACGIH STEL

200ppm (260 mg/m³)NIOSH Encouragement TWA 10hours (skin)

250ppm (325 mg/m³)NIOSH Encouragement STEL 10hours (skin)

270 mg/m³ (200 ml/m³) DFG MAK

WATER

Internal regulation :-

ACGIH Short-Term Exposure Limit (STEL): -

DIOCTYL SODIUM SULFOSUCCINATE

Internal regulation :-

ACGIH Short-Term Exposure Limit (STEL): -

METHYL -1H-BENZOTRIAZOLE

Internal regulation :-

ACGIH Short-Term Exposure Limit (STEL): -

EXPOSURE CONTROL :

Provide eyewash station. Provide sufficient ventilation during operations which cause vapour formation.

HYGIENIC WORK PRACTICES :

Wash at the end of each work shift and before eating, smoking and using the toilet.

RESPIRATORY PROTECTION :

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL). Wear full face mask supplied with: Gas cartridge (organic substances).

EYE PROTECTION :

Use approved safety goggles or face shield.

HAND PROTECTION :

Use suitable protective gloves if risk of skin contact. Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC.

SKIN PROTECTION :

Wear appropriate clothing to prevent any possibility of skin contact.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :	Physical Condition - Liquid, Color - Blue
ODOR :	Methyl alcohol Smell
SOLUBILITY :	Miscible in water
pH :	7.0 ~ 9.0
MELTING POINT :	No data
FREEZING POINT :	No data
BOILING POINT :	More than 60 °C
FLASH POINT :	No data
VAPOUR PRESSURE :	97.25 mmHg(20 °C)
DENSITY OF VAPOR :	(Air=1) 1.2
SPECIFIC GRAVITY :	0.975 ~ 0.995
VISCOSITY :	36.01cst (15 °C), 18.09 cst(25 °C)
MOLECULAR WEIGHT :	No data
EVAPORATION RATE :	(BuAc=1) No information found.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY :

Stable under ordinary conditions of use and storage.

HAZARDOUS DECOMPOSITION PRODUCTS :

Carbon dioxide and carbon monoxide may form when heated to decomposition.

May produce acrid smoke and irritating fumes when heated to decomposition.

HAZARDOUS POLYMERIZATION :

Will not occur.

INCOMPATIBILITIES :

Strong oxidizing agents. Reacts violently with chlorosulfonic acid, oleum, sulfuric acid, perchloric acid.

Causes ignition at room temperature with chromium trioxide, potassium permanganate and sodium peroxide; causes ignition at 212F(100C) with ammonium dichromate, silver chlorate, sodium chloride and uranyl nitrate.

CONDITIONS TO AVOID :

Heat, flames, ignition sources, water (absorbs readily) and incompatibles.

SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA : No data, according to component data entry.

Methyl alcohol

ORAL : LD₅₀ 5628mg/kg (mouse)
LD₅₀ 14200mg/kg (rabbit)
LD₅₀ 7g/kg (monkey)
LD₅₀ 7300mg/kg (mouse)
SKIN : LD₅₀ 15800 mg/kg (rabbit)
INHALATION : No data
IRRITATION DATA : No data

WATER

ORAL : LD₅₀ >90 ml/kg (rat)
SKIN : No data
INHALATION : No data
IRRITATION DATA : No data

DIOCTYL SODIUM SULFOSUCCINATE

ORAL : LD₅₀ 1900mg/kg (rat)
SKIN : LD₅₀ >10000mg/kg (rat)
INHALATION : LC₅₀ 20mg/ℓ/96hr (rat)
IRRITATION DATA : No data

METHYL 1H BENZOTRIAZOLE

ORAL : LD₅₀ 675mg/kg (rat)
SKIN : No data
INHALATION : No data
IRRITATION DATA : No data

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY DATA : No data, according to component data entry.

Methyl alcohol

FISHES : LC₅₀ >74.3 μg/l (96hours)
INVERTEBRATE : LC₅₀ >383 μg/l (48hours)
SEA ALGAE : 220~480 μg/l (8hours)
OTHER : No data

WATER

FISHES : No data
INVERTEBRATE : No data
SEA ALGAE : No data
OTHER : No data

DIOCTYL SODIUM SULFOSUCCINATE

FISHES : LC₅₀ >24000 μg/l (96hours)
INVERTEBRATE : LC₅₀ >9200 μg/l (96hours)
SEA ALGAE : LC₅₀ >7700 μg/l (48hours)
OTHER : No data

METHYL 1H BENZOTRIAZOLE

FISHES : No data
INVERTEBRATE : No data
SEA ALGAE : No data
OTHER : No data

ENVIRONMENTAL FATE :

When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is expected to readily biodegrade. When released into the water, this material is expected to have a half-life between 1 and 10 days. This material is not expected to significantly bioaccumulate. This material has a log octanol-water partition coefficient of less than 3.0. When released into water, this material is not expected to evaporate significantly. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days.

SECTION 13 - DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste

disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 - TRANSPORT INFORMATION

Not regulated.

SECTION 15 - REGULATORY INFORMATION

© KOREA REGULATIONS

INDUSTRIAL SAFETY A HEALTH MEASURE : Hazardous Substances

HARMFUL CHEMICAL SUBSTANCE CONTROL LAW : poisonous material

THE FIRE SERVICES ACT : Alcohols of 4th class(as receptiveness liquid)

© U.S.A. REGULATIONS

CERCLA 103 REGULATIONS (40CFR302.4) : Methyl alcohol

SARA 302 REGULATIONS (40CFR355.30) : None allocated.

SARA 304 REGULATIONS (40CFR355.40) : None allocated.

SARA, SARA 311/312 REGULATIONS (40CFR370.21) : Methyl alcohol

- Acute : Yes - Chronic : Yes - Fire : yes - Pressure : No - Reactivity : No

SARA 313 REGULATIONS (40CFR372.65) : Methyl alcohol

OSHA REGULATIONS (29CFR1910.119) : None allocated.

PIC materials : None allocated.

POPs materials : None allocated.

© EU CLASSIFICATION INFORMATION

Definited classification result : F (flammability substance), T (poisonous material)

R-PHRASES : R11,R23/24/25 , R39/23/24/25

S-PHRASES: S1/2, S7, S16, S36/37, S45

SECTION 16 - OTHER INFORMATION

LABEL HAZARD WARNING :

WARNING! HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN.
MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY
TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.

LABEL PRECAUTIONS :

Do not breathe vapor or mist. Use only with adequate ventilation. Keep container closed.
Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

LABEL FIRST AID :

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes.

Call a physician if irritation develops or persists. If swallowed, give water or milk to drink and induce vomiting.

Never give anything by mouth to an unconscious person. In all cases call a physician.