

ASHLAND®

SAFETY DATA SHEET

Page: 1

Revision Date: 03/28/2013

Print Date: 4/4/2014

MSDS Number: R0700074

Version: 1.1

Presstige™ FB9090 Felt Cleaning And
Conditioning Agent
™ Trademark, Ashland or its subsidiaries,
registered in various countries423391

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

Ashland	Regulatory Information Number	1-800-325-3751
P.O. Box 2219	Telephone	614-790-3333
Columbus, OH 43216	Emergency telephone number	1-800-ASHLAND (1-800-274-5263)
Product name	Presstige™ FB9090 Felt Cleaning And Conditioning Agent ™ Trademark, Ashland or its subsidiaries, registered in various countries	
Product code	423391	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, light yellow

DANGER! MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES SEVERE BURNS OF THE EYES AND SKIN. MAY BE HARMFUL. MAY CAUSE SEVERE BURNS OF RESPIRATORY AND DIGESTIVE TRACTS.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.

Skin contact

Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage. The feeling of irritation or burning may be delayed following skin

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contact with potassium hydroxide solutions. Contact with mist or dust may cause multiple small skin burns.

Ingestion

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

Inhalation

Breathing of vapor or mist is possible. Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, Upper respiratory tract, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Cough, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), Difficulty in breathing, narcosis (dazed or sluggish feeling), lung edema (fluid buildup in the lung tissue), lung damage

Target Organs

Studies with rabbits indicate that sustained, occluded skin contact with undiluted surfactant may result in the development of inflammatory changes in the lung. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, kidney damage

Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

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This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / Trade Secret No.	Concentration
GLYCOL	254504001-5829	>=10-<15%
POTASSIUM HYDROXIDE	1310-58-3	>=5-<10%
SURFACTANT	254504001-5325	>=5-<10%
POLY(OXY-1,2-ETHANEDIYL), ALPHA-HYDRO-OMEGA-HYDRO	68130-47-2	>=5-<10%

4. FIRST AID MEASURES

Eyes

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention. Do not remove the victim from water access for transport to a medical facility unless instructed to do so by qualified medical personnel. If possible, continue flushing the eye gently with water while transporting the victim.

Skin

Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and discard contaminated shoes.

Ingestion

Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

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Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Notes to physician

Hazards: No information available.

Treatment: No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Dry chemical, Carbon dioxide (CO2), Water spray, Foam

Hazardous combustion products

carbon dioxide and carbon monoxide, Hydrocarbons, potassium oxide

Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

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Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Other information

Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage

Store in a cool, dry, ventilated area. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

GLYCOL		254504001-5829
NIOSH	Recommended exposure limit (REL):	100 ppm
NIOSH	Recommended exposure limit (REL):	600 mg/m ³
NIOSH	Short term exposure limit	150 ppm
NIOSH	Short term exposure limit	900 mg/m ³
OSHA Z1	Permissible exposure limit	100 ppm
OSHA Z1	Permissible exposure limit	600 mg/m ³
ACGIH	time weighted average	100 ppm
ACGIH	Short term exposure limit	150 ppm
POTASSIUM HYDROXIDE		1310-58-3
ACGIH	Ceiling Limit Value:	2 mg/m ³
NIOSH	Recommended exposure limit (REL):	2 mg/m ³

General advice

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These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

Mechanical ventilation systems used to ventilate corrosive storage or process areas must be designed with components that are corrosion resistant. Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist. Maintain eye wash station in immediate work area.

Skin and body protection

Wear appropriate chemical impervious clothing and boots whenever there is potential for skin contact with product. Launder clothing before reuse. Maintain safety shower at all locations where skin contact could occur. Contact your local safety equipment supplier to assist the facility in determining proper selection of personal protective equipment for the applications/operations present at your facility. Wear resistant gloves (consult your safety equipment supplier). Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Colour	light yellow
Odour	odourless

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Melting point/range	5 °F / -15 °C
pH	12.3 - 13.3 @ 5 % (as aqueous solution)
Flash point	> 200.1 °F / > 93.4 °C Pensky Martens closed cup
Evaporation rate	(<)1 n-Butyl Acetate
Vapour pressure	24.000 hPa @ 70 °F / 21 °C
Relative vapour density	(<)1 AIR=1
Density	1.086 - 1.108 g/cm3 @ 80.1 °F / 26.7 °C
Water solubility	completely soluble
Viscosity, dynamic	18 mPa.s @ 21 °C

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Do not allow evaporation to dryness., Heat, flames and sparks., Exposure to air., temperature extremes

Incompatible products

Acids, Alcohols, aluminum, Amines, chlorinated solvents, halogenated hydrocarbons, Metals, Oxygen, salts of strong bases, strong bases, Strong oxidizing agents, strong reducing agents, Zinc

Hazardous decomposition products

Aldehydes, carbon dioxide and carbon monoxide, Hydrocarbons, potassium oxide, ketones

Hazardous reactions

Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

Information on likely : Inhalation

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routes of exposure	Skin absorption Skin contact Eye Contact Ingestion
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Product

Acute oral toxicity	: LD 50 Rat: Expected > 3,000 mg/kg
Acute inhalation toxicity	: no data available
Acute dermal toxicity	: LD 50 Rabbit: Expected > 5,000 mg/kg
Skin corrosion/irritation	: no data available
Serious eye damage/eye irritation	: no data available
Respiratory or skin sensitisation	: no data available
Target Organ Systemic Toxicant - Repeated exposure	: Target Organs: Studies with rabbits indicate that sustained, occluded skin contact with undiluted surfactant may result in the development of inflammatory changes in the lung., Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, kidney damage

Components:

GLYCOL:

Acute oral toxicity	: LD 50 Rat: > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC 50 Rat, Female: > 553 ppm Exposure time: 8 h

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Method: OECD Test Guideline 403

Acute dermal toxicity : LD 50 Rat: > 5,000 mg/kg

POTASSIUM HYDROXIDE:

Acute oral toxicity : LD 50 Rat: 333 mg/kg

Acute dermal toxicity : LD 50 Rabbit: 1,260 mg/kg

SURFACTANT:

Acute oral toxicity : Harmful if swallowed.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC 50 (Fish): Expected > 10 - 100 mg/l

Toxicity to daphnia and : EC 50 (Aquatic invertebrates): Expected > 100 mg/l
other aquatic invertebrates

LC 50 (Aquatic invertebrates): 130 mg/l

NOEC (Aquatic invertebrates): 62.5 mg/l

Exposure time: 48 h

Test Method: static test

Method: Renewal

Components:

GLYCOL:

Toxicity to fish : LC 50 (Pimephales promelas (fathead minnow)): >
10,000 mg/l

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Exposure time: 96 h
Test Method: static test

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (*Daphnia magna*)): 1,919 mg/l
Exposure time: 48 h

Toxicity to algae : EC 50 (*Pseudokirchneriella subcapitata* (green algae)): > 969 mg/l
Exposure time: 72 h
Test Method: Growth inhibition

POTASSIUM HYDROXIDE:

Toxicity to fish : LC 50 (Western mosquitofish (*Gambusia affinis*)): 80 mg/l
Exposure time: 96 h
Method: Static
Mortality

SURFACTANT:

Toxicity to fish : LC 50 (Fish): > 1 - 10 mg/l
Exposure time: 96 h

Persistence and degradability

Product:

no data available

Components:

GLYCOL:

Biodegradability : Biodegradation: 75 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

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Chemical Oxygen Demand : 2.02 mg/g
(COD)

POLY(OXY-1,2-ETHANEDIYL), ALPHA-HYDRO-OMEGA-HYDRO:

Biodegradability : Readily biodegradable

Bioaccumulative potential

Product:

no data available

Components:

no data available

Mobility in soil

Product:

no data available

Components:

no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

REGULATION

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ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /LTD. QTY.
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U.S. DOT - ROAD

UN 1814	Potassium hydroxide, solution	8		II	
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U.S. DOT - RAIL

UN 1814	Potassium hydroxide, solution	8		II	
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U.S. DOT - INLAND WATERWAYS

UN 1814	Potassium hydroxide, solution	8		II	
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TRANSPORT CANADA - ROAD

UN 1814	POTASSIUM HYDROXIDE, SOLUTION	8		II	
---------	----------------------------------	---	--	----	--

TRANSPORT CANADA - RAIL

UN 1814	POTASSIUM HYDROXIDE, SOLUTION	8		II	
---------	----------------------------------	---	--	----	--

TRANSPORT CANADA - INLAND WATERWAYS

UN 1814	POTASSIUM HYDROXIDE, SOLUTION	8		II	
---------	----------------------------------	---	--	----	--

INTERNATIONAL MARITIME DANGEROUS GOODS

UN 1814	POTASSIUM HYDROXIDE SOLUTION	8		II	
---------	---------------------------------	---	--	----	--

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN 1814	Potassium hydroxide solution	8		II	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN 1814	Potassium hydroxide solution	8		II	
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN 1814	HIDROXIDO POTASICO EN SOLUCION	8		II	
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*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SARA Hazard Classification
SARA 311/312 Classification
Acute Health Hazard

SARA 313 Component(s)

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Notification status

US. Toxic Substances Control Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
Japan. ENCS - Existing and New Chemical Substances Inventory	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)

Reportable quantity - Product

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US. EPA CERCLA Hazardous Substances (40 CFR 302)	10582 lbs
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Reportable quantity-Components

POTASSIUM HYDROXIDE	1310-58-3	1000 lbs
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	HMIS	NFPA
Health	3	3
Flammability	1	1
Physical hazards	0	
Instability		0
Specific Hazard	--	--

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

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LD_{xx} : Lethal Dose, for xx percent of test population.
IC_{xx} : Inhibitory Concentration for xx of a substance
EC_{xx} : Effective Concentration of xx
N.O.S.: Not Otherwise Specified
OECD : Organization for Economic Co-operation and Development
OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic
PPE : Personal Protective Equipment
STEL : Short-term exposure limit
STOT : Specific Target Organ Toxicity
TLV : Threshold Limit Value
TWA : Time-weighted average
vPvB : Very Persistent and Very Bioaccumulative
WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
DOT : Department of Transportation
FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act
HMIRC : Hazardous Materials Information Review Commission
HMIS : Hazardous Materials Identification System
NFPA : National Fire Protection Association
NIOSH : National Institute for Occupational Safety and Health
OSHA : Occupational Safety and Health Administration
PMRA : Health Canada Pest Management Regulatory Agency
RTK : Right to Know
WHMIS : Workplace Hazardous Materials Information System