

844-226

MATERIAL SAFETY DATA SHEET

1A.17.890, 4519, 4522, 0020

SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER/DISTRIBUTOR:
RAINBOW SPECIALTY COLORS, INC.
70 FIFTH AVENUE
HAWTHORNE, NJ 07506

PREPARED BY: DAYANA MARIA DILL
PREPARATION DATE: 8/13/12
EMERGENCY PHONE NUMBER: 1-973-304-0912

PRODUCT NAME: BLOOD RED BLEND #1094
CHEMICAL NAME: MIXTURE
CHEMICAL FAMILY: MIXTURE
CHEMICAL ABSTRACT REGISTRY NUMBER: MIXTURE

SECTION II: INFORMATION ON HAZARDOUS INGREDIENTS

CHEMICAL NAME - HAZARD: THIS PRODUCT DOES NOT CONTAIN ANY HAZARDOUS INGREDIENTS AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200.

CHEMICAL NAME - CARCINOGEN: THIS PRODUCT DOES NOT CONTAIN ANY CARCINOGENS AS DEFINED BY NTP, IARC AND OSHA.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS):

HEALTH:	1	REACTIVITY:	0
FLAMMABILITY:	1	PROTECTIVE EQUIPMENT:	F

SECTION III: HAZARDS IDENTIFICATION & EMERGENCY OVERVIEW**POTENTIAL HEALTH EFFECTS - ACUTE & CHRONIC:**

MILD IRRITANT TO THE EYES. ALTHOUGH NO EXPOSURE LIMIT HAS BEEN ESTABLISHED FOR THIS PRODUCT, THE OSHA / PEL FOR NUISANCE DUST IS RECOMMENDED. IN ADDITION, THE ACGIH / TLV FOR NUISANCE DUST OF 10 MG/M3 IS RECOMMENDED.

PRIMARY ROUTES OF ENTRY:

INHALATION, INGESTION, EYE AND SKIN CONTACT.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

ALTHOUGH WE HAVE NO DATA AVAILABLE ON THE EFFECTS OF INHALING THIS PRODUCT, INDIVIDUALS WITH IMPAIRED PULMONARY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF INHALING ANY TYPE OF DUSTY MATERIAL.

SECTION IV: FIRST AID MEASURES

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

SKIN CONTACT: WASH WITH SOAP AND WATER. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

INHALATION: MOVE PATIENT TO FRESH AIR. AID IN BREATHING IF NECESSARY AND GET PROMPT MEDICAL ATTENTION.

INGESTION: INDUCE VOMITING IN A CONSCIOUS PERSON. NEVER GIVE FLUIDS OR INDUCE VOMITING IF THE PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS. GET MEDICAL ATTENTION.

EFFECTS OF OVEREXPOSURE: PROLONGED CONTACT MAY CAUSE IRRITATIONS. CHRONIC AFFECTS ARE UNKNOWN.

MATERIAL SAFETY DATA SHEET

SECTION V: FIRE FIGHTING MEASURES

FLASH POINT: N/A **FLAMMABLE LIMITS:** **LEL:** N/A **UEL:** N/A

SPECIAL FIREFIGHTING PROCEDURES:

FIREFIGHTERS SHOULD BE EQUIPPED WITH SELF CONTAINED BREATHING APPARATUS (SCBA) AND FULL FIREFIGHTING TURN OUT GEAR (BUNKER GEAR) TO PROTECT AGAINST POTENTIAL TOXIC AND IRRITATING FUMES.

UNUSUAL FIRE & EXPLOSION HAZARDS:

AVOID DUSTING. MAY FORM EXPLOSIVE MIXTURE WITH AIR.

HAZARDOUS DECOMPOSITION PRODUCTS:

BURNING MAY RELEASE OXIDES OF CARBON, NITROGEN AND OTHER POTENTIALLY TOXIC AND IRRITATING FUMES.

EXTINGUISHING MEDIA:

FOAM PREFERRED, WATER, SPRAY/MIST, CARBON DIOXIDE OR DRY CHEMICAL. CARE MUST BE TAKEN WHEN APPLYING EXTINGUISHING AGENTS WHICH EXIT WITH FORCE TO TO A POWDER FIRE. DRIED POWDER WILL SUPPORT COMBUSTION.

SECTION VI: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

FIRST CONSULT WITH YOUR SUPERVISOR. RECLAIM WHERE POSSIBLE. IF UNCONTAMINATED, RETURN TO ORIGINAL CONTAINER. IF CONTAMINATED, SPILLS SHOULD BE PLACED IN RESTRICTED WASTE CONTAINER. SPILL AREA CAN THEN BE WASHED WITH DETERGENT AND WATER AND TAKEN UP WITH SUITABLE ABSORBANT FOR APPROVED DISPOSAL. REFER TO SECTION I FOR EMERGENCY CONTACT INFORMATION.

SECTION VII: HANDLING & STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN A COOL, DRY PLACE, AWAY FROM EXCESSIVE HEAT, IN ORIGINAL OR SIMILAR WATER PROOF CONTAINERS. RESEAL CONTAINERS IMMEDIATELY AFTER USE. AVOID UNNECESSARY CONTACT. IF YOU FEEL ANY ILL EFFECTS AFTER HANDLING, REPORT IMMEDIATELY TO YOUR SUPERVISOR.

WORK PRACTICES:

MAINTAIN GOOD HOUSEKEEPING PROCEDURES. AVOID EYE AND SKIN CONTACT. DO NOT BREATHE DUST. MINIMIZE DUST GENERATION AND ACCUMULATION. NO TOBACCO OR FOOD IN AREA. WASH HANDS AND FACE BEFORE HANDLING FOOD.

HYGENIC PRACTICES:

SHOWER DAILY. LAUNDER WORK CLOTHES AFTER EACH USE.

SECTION VIII: EXPOSURE CONTROL AND PERSONAL PROTECTION

EYE PROTECTION: WEAR SAFETY GLASSES WITH SIDE SHIELDS OR SAFETY GOGGLES.

SKIN PROTECTION: RUBBER GLOVES AND LONG SLEEVED SHIRTS AND PANTS TO MINIMIZE SKIN CONTACT.

RESPIRATORY PROTECTION: WEAR A NIOSH/MSHA APPROVED RESPIRATOR WITH A DUST CARTRIDGE FILTER.

OTHER PROTECTIVE EQUIPMENT: EMERGENCY DELUGE AND EYE WASH STATIONS SHOULD BE READILY AVAILABLE. EDUCATE & TRAIN EMPLOYEES IN THE SAFE USE AND HANDLING OF THIS PRODUCT.

ENGINEERING CONTROLS:

USE EXHAUST VENTILATION TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW EXPOSURE LIMITS.

EXPOSURE LIMITS: NOT ESTABLISHED.

MATERIAL SAFETY DATA SHEET

SECTION IX: PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: RED POWDER.

ODOR: NO APPRECIABLE ODOR.

SOLUBILITY IN WATER: SOLUBLE

CHEMICAL DATA:

BOILING POINT: N/A (F)

VAPOR PRESSURE: N/A (mmHg)

VAPOR DENSITY: N/A (AIR=1)

FREEZING POINT: N/A (F)

SPECIFIC GRAVITY:

% VOLATILE BY VOLUME:

EVAPORATION RATE:

MELTING POINT:

N/A (WATER=1)

N/A

N/A (BUTYL ACETATE=1)

N/E (F)

SECTION X: STABILITY & REACTIVITY

CHEMICAL STABILITY: THIS PRODUCT SHOULD BE STABLE UNDER NORMAL STORAGE CONDITIONS.

CONDITIONS TO AVOID FOR STABILITY: EXTREME HEAT. STRONG OXIDIZING AND REDUCING AGENTS.

INCOMPATIBILITY (MATERIALS TO AVOID): OXIDIZING AND REDUCING AGENTS MAY DESTROY COLOR.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

CONDITIONS TO AVOID FOR POLYMERIZATION: NOT APPLICABLE.

SECTION XI: TOXICOLOGICAL INFORMATION

ANIMAL TOXICITY: NO INFORMATION.

AQUATIC TOXICITY: NO INFORMATION.

SECTION XII: ECOLOGICAL INFORMATION

ECOTOXICITY: NO INFORMATION.

ENVIRONMENTAL FATE: NO INFORMATION.

SECTION XIII: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS:

THIS PRODUCT, IN THE SAME CONDITION AS SOLD, ALONG WITH THE CLEAN UP WATER AND ABSORBANT, SHOULD BE DISCARDED IN ACCORDANCE WITH EXISTING FEDERAL, STATE, LOCAL OR PROVINCIAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT WITH YOUR SUPERVISOR BEFORE DISPOSAL.

RCRA OR CERCLA REGULATED:

IF DISCARDED IN ITS PURCHASED FORM, THIS PRODUCT WOULD NOT BE A HAZARDOUS WASTE EITHER BY LISTING OR BY CHARACTERISTIC. HOWEVER, UNDER RCRA, IT IS THE RESPONSIBILITY OF THE PRODUCT USER TO DETERMINE AT THE TIME OF DISPOSAL, WHETHER A MATERIAL CONTAINING THE PRODUCT OR DERIVED FROM THE PRODUCT SHOULD BE CLASSIFIED AS A HAZARDOUS WASTE (40 CFR 261.20-24).

CONTAINERS:

CONTAINERS SHOULD BE TRIPLE RINSED ACCORDING TO FEDERAL REGULATIONS & /OR GOOD WASTE MANAGEMENT PRACTICES.

MATERIAL SAFETY DATA SHEET

SECTION XIV: TRANSPORTATION INFORMATION

DOT NAME: NOT APPLICABLE

DOT HAZARD CLASS: NOT APPLICABLE

DOT UN/NA NUMBERS: NOT APPLICABLE

DOT REPORTABLE QUANTITY: NOT APPLICABLE

DOT LABELS: NOT APPLICABLE

DOT EMERGENCY RESPONSE INFORMATION:

KEEP UNNECESSARY PEOPLE AWAY. ISOLATE AREA AND DENY ENTRY. STAY UPWIND. KEEP OUT OF LOW AREAS.
CALL 1-973-304-0912 FOR EMERGENCY ASSISTANCE.

SECTION XV: REGULATORY INFORMATION

TSCA STATUS: THE COMPONENTS OF THIS FORMULATED PRODUCT ARE LISTED ON THE TSCA INVENTORY.

OSHA STATUS: THE COMPONENTS OF THIS FORMULATED PRODUCT ARE NOT HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200.

SARA TITLE III - 302: THE COMPONENTS OF THIS FORMULATED PRODUCT ARE NOT LISTED ON THE SARA TITLE III - SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCE LIST.

SARA TITLE III - 311/312: THE COMPONENTS OF THIS FORMULATED PRODUCT HAVE BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 & 312 OF SARA TITLE III AND IS NOT CONSIDERED TO MEET, UNDER APPLICABLE DEFINITIONS, ANY HAZARD CATEGORY.

SARA TITLE III - 313: THIS PRODUCT DOES NOT CONTAIN ANY SUBSTANCES SUBJECT TO THE ANNUAL REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 (40 CFR PART 372).

CANADA WHMIS: THIS PRODUCT IS NOT A CONTROLLED PRODUCT ACCORDING TO THE CANADIAN WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (WHMIS).

STATE INFORMATION: THE FOLLOWING CHEMICALS ARE SPECIFICALLY LISTED BY INDIVIDUAL STATES. OTHER PRODUCT SPECIFIC HEALTH & SAFETY DATA IN OTHER SECTIONS OF THE MSDS MAY ALSO BE APPLICABLE FOR STATE REQUIREMENTS. FOR DETAILS ON YOUR REGULATORY REQUIREMENTS YOU SHOULD CONTACT THE APPROPRIATE AGENCY IN YOUR STATE.

COMPONENT:	FDC RED 40 CASRN: 25956-17-6	NJ TOP 5 INGREDIENTS >1% PA NONHAZARDOUS >3%
	FDC BLUE 1 CASRN: 3844-45-9	NJ TOP 5 INGREDIENTS >1% PA NONHAZARDOUS >3%
	SODIUM BENZOATE CASRN: 532-32-1	NJ TOP 5 INGREDIENTS >1% PA NONHAZARDOUS >3%
	METHYLCELLULOSE CASRN: 9004-67-5	NJ TOP 5 INGREDIENTS >1% PA NONHAZARDOUS >3%

SECTION XVI

LEGEND:	N/A - NOT APPLICABLE	N/I - NO INFORMATION
	N/E - NOT ESTABLISHED	N/D - NOT DETERMINED

REASON FOR REVISION: N/A

DISCLAIMER: THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT THAT IT IS ACCURATE TO THE BEST KNOWLEDGE OF RAINBOW SPECIALTY COLORS, INC. THE DATA ON THIS SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN. RAINBOW SPECIALTY COLORS ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THESE DATA.
END OF THIS MSDS

ASHLAND	Page: 1
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 7/23/2015
	SDS Number: R0702803
Natrosol™ 250HBR PA Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 431169	Version 1.0

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**Product identifier**

Trade name

: Natrosol™ 250HBR PA
Hydroxyethylcellulose
™ Trademark, Ashland or its subsidiaries, registered in
various countries

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet Ashland P.O. Box 2219 Columbus, OH 43216 United States of America EHS Customer Requests@ashland.com	Emergency telephone number 1-800-ASHLAND (1-800-274-5263) Regulatory Information Number 1-800-325-3751 Product Information 614-790-3333
--	---

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Combustible Dust

GHS Label element

Signal Word

: Warning

Hazard Statements

: May form combustible dust concentrations in air.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Chemical nature

: organic

Chemical nature

: Defatter

ASHLAND	Page: 2
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 7/23/2015
	SDS Number: R0702803
Natrosol™ 250HBR PA Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 431169	Version 1.0

Hazardous components

This product is considered hazardous according to the OSHA Hazard Communication Standard 29CFR1910.1200 due to flammable dust potential.

SECTION 4. FIRST AID MEASURES

General advice	: No hazards which require special first aid measures.
If inhaled	: If breathed in, move person into fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
In case of eye contact	: Remove contact lenses. Protect unharmed eye.
If swallowed	: Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways)
Notes to physician	: No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam
Specific hazards during firefighting	: Organic dusts at sufficient concentration can form explosive mixtures in air. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: carbon dioxide and carbon monoxide Nitrogen oxides (NOx)
Specific extinguishing methods	:

ASHLAND	Page: 3
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 7/23/2015
	SDS Number: R0702803
Natrosol™ 250HBR PA Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 431169	Version: 1.0

Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid dust formation.
Avoid breathing dust.
Material can create slippery conditions.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.
Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid dust formation.
Ensure all equipment is electrically grounded and bonded before beginning transfer operations.
The material can accumulate static charge and can therefore cause electrical ignition of flammable atmospheres.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Maintain good housekeeping. Do not permit dust layers to accumulate, for example, on floors, ledges, and equipment, in order to avoid any potential for dust explosion hazards.

For further guidance on prevention of dust explosions, refer to National Fire Protection Association (NFPA) 654: "Standard for the Prevention of Fire and Dust Explosions, from the Manufacturing, Processing and Handling of Combustible Particulate Solids".

Conditions for safe storage : No smoking.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

ASHLAND		Page: 4
SAFETY DATA SHEET		Revision Date: 05/21/2015
		Print Date: 7/23/2015
		SDS Number: R0702803
Natrosol™ 250HBR PA Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 431169		Version 1.0

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
SILICA COLLOIDAL	112926-00-8	REL	6 mg/m3	NIOSH/GUID E
		TWA	0.8 mg/m3	Z3
		TWA	6 mg/m3	TN OEL

Engineering measures : Provide appropriate exhaust ventilation at places where dust is formed.
General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Eye protection : Safety glasses

Skin and body protection : Wear as appropriate:
Safety shoes
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : Avoid breathing dust.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : granules, powder

Physical state : solid

Colour : off-white

Odour : odourless

Odour Threshold : No data available

pH : 6.0 - 8.5, 2 % (as aqueous solution)

ASHLAND	Page: 5
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 7/23/2015
	SDS Number: R0702803
Natosol™ 250HBR PA Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 431169	Version: 1.0

Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
	No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 1.38 g/cm ³
Solubility(ies)	
Water solubility	: soluble, Limited by viscosity
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: 460 °C
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Oxidizing properties	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous	: Dust may form explosive mixture in air.

ASHLAND®	Page: 6
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 7/23/2015
	SDS Number: R0702803
Natrosol™ 250HBR PA Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 431169	Version: 1.0

reactions

Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.

UV light.
Exposure to sunlight.

Incompatible materials : Acids
Bases
Hydrogen fluoride
Oxidizing agents
strong alkalis

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury., Product dust may be irritating to eyes, skin and respiratory system.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

ASHLAND	Page: 7
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 7/23/2015
	SDS Number: R0702803
Natrosol™ 250HBR PA Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 431169	Version: 1.0

Further information**Product:**

Remarks: No data available

Carcinogenicity:**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability**Product:**

Biodegradability : Remarks: Slowly biodegradable.

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

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

Contaminated packaging : Empty remaining contents.

ASHLAND		Page: 8
SAFETY DATA SHEET		Revision Date: 05/21/2015
		Print Date: 7/23/2015
		SDS Number: R0702803
Natrosol™ 250HBR PA Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 431169		Version: 1.0

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

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

U.S. DOT - ROAD

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

ASHLAND®	Page: 9
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 7/23/2015
	SDS Number: R0702803
Natrosol™ 250HBR PA Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 431169	Version: 1.0

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
------------------	----

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.

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Fire Hazard

US State Regulations

Pennsylvania Right To Know

CELLULOSE	254504001-5906	90.00 - 100.00
-----------	----------------	----------------

The identity of one or more component(s) is being withheld under business confidentiality.

Inorganic Salts	Not Assigned	1.00 - 5.00 %
-----------------	--------------	---------------

SILICA COLLOIDAL	112926-00-8	1.00 - 5.00 %
------------------	-------------	---------------

New Jersey Right To Know

CELLULOSE	254504001-5906	90.00 - 100.00
-----------	----------------	----------------

The identity of one or more component(s) is being withheld under business confidentiality.

Inorganic Salts	Not Assigned	1.00 - 5.00 %
-----------------	--------------	---------------

SILICA COLLOIDAL	112926-00-8	1.00 - 5.00 %
------------------	-------------	---------------

California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

FORMALDEHYDE	50-00-0
--------------	---------

1,4-DIOXANE	123-91-1
-------------	----------

ACETALDEHYDE	75-07-0
--------------	---------

ETHYLENE OXIDE	75-21-8
----------------	---------

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive

ASHLAND		Page: 10
SAFETY DATA SHEET		Revision Date: 05/21/2015
		Print Date: 7/23/2015
		SDS Number: R0702803
		Version: 1.0
Natrosol™ 250HBR PA Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 431169		

harm.
ETHYLENE OXIDE 75-21-8

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL.

AUSTR : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECL : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

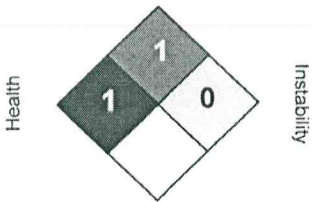
Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 05/21/2015

NFPA:	HMIS III:						
Flammability Health Instability Special hazard. 	<table border="1"> <tr> <td>HEALTH</td><td>1</td></tr> <tr> <td>FLAMMABILITY</td><td>1</td></tr> <tr> <td>PHYSICAL HAZARD</td><td>0</td></tr> </table> 0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic	HEALTH	1	FLAMMABILITY	1	PHYSICAL HAZARD	0
HEALTH	1						
FLAMMABILITY	1						
PHYSICAL HAZARD	0						

NFPA Flammable and Combustible Liquids Classification

Not applicable

Full text of H-Statements referred to under sections 2 and 3.

ASHLAND	Page: 11
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 7/23/2015
	SDS Number: R0702803
Natrosol™ 250HBR PA Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 431169	Version: 1.0

Sources of key data used to compile the Safety Data Sheet

Ashland internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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 SDS 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

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : 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

ASHLAND®		Page: 12
SAFETY DATA SHEET		Revision Date: 05/21/2015
		Print Date: 7/23/2015
		SDS Number: R0702803
Natrosol™ 250HBR PA Hydroxyethylcellulose ™ Trademark, Ashland or its subsidiaries, registered in various countries 431169		Version: 1.0

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

SAFETY DATA SHEET

Snow White Pet USP



Section 1. Identification

1A-17-890, 0028, 4519, 4522

GHS product identifier : Snow White Pet USP
Product code : PEN1720-00-C
Chemical name : Petrolatum
Other means of identification : Petroleum jelly; Mineral grease (petrolatum); RED PETROLATUM; Petrolatum.
Product type : Solid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Petrochemical industry: Petroleum refining. Petrolatum.	
Uses advised against	Reason
Not available.	

Supplier's details : Calumet Specialty Products Partners, L.P.
2780 Waterfront Pkwy E. Dr.
Suite 200
Indianapolis, Indiana 46214 USA
Technical Services: 317-328-5660

Emergency telephone number (with hours of operation) : 24 hr. CHEMTREC 1-800-424-9300 / International 1-703-527-3887

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Substance
Chemical name : Petrolatum
Other means of identification : Petroleum jelly; Mineral grease (petrolatum); RED PETROLATUM; Petrolatum.

CAS number/other identifiers

CAS number : 8009-03-8

Ingredient name	%	CAS number
Petrolatum	100	8009-03-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments : No specific treatment.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : Do not use water jet.

Specific hazards arising from the chemical : No specific fire or explosion hazard.

Hazardous thermal decomposition products : No specific data.

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

- Physical state** : Solid. [Waxy solid.]
- Color** : Colorless. White.
- Odor** : Hydrocarbon.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : 55.2°C (131.4°F)
- Boiling point** : 359 to 732°C (678.2 to 1349.6°F)
- Flash point** : Closed cup: 259 to 277°C (498.2 to 530.6°F)
Open cup: >200°C (>392°F) [Cleveland.]
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : <0.0013 kPa (<0.01 mm Hg) [room temperature]

Section 9. Physical and chemical properties

Vapor density	: Not available.
Relative density	: 0.844
Solubility	: Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: 6
Auto-ignition temperature	: >290°C (>554°F)
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.25 cm ² /s (>25 cSt)

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Petrolatum	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Conclusion/Summary : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Petrolatum	Acute EC50 >100 mg/l	Algae	72 hours
	Acute EC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Petrolatum	6	-	high

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA classification : Not Regulated

Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: This material is listed or exempted.
This material is listed or exempted.

Clean Air Act Section 112 : Not listed
(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed
Class I Substances

Clean Air Act Section 602 : Not listed
Class II Substances

DEA List I Chemicals : Not listed
(Precursor Chemicals)

DEA List II Chemicals : Not listed
(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

No products were found.

State regulations

Massachusetts : This material is not listed.

New York : This material is not listed.

New Jersey : This material is not listed.

Pennsylvania : This material is not listed.

California Prop. 65

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International lists

National inventory

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

China : This material is listed or exempted.

Europe : This material is listed or exempted.

Japan : This material is listed or exempted.

Malaysia : Not determined.

New Zealand : This material is listed or exempted.

Philippines : This material is listed or exempted.

Republic of Korea : This material is listed or exempted.

Taiwan : This material is listed or exempted.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
Not classified.	

History

Date of issue/Date of revision : 02/19/2015

Version : 1

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

☑ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.