

MATERIAL SAFETY DATA SHEET BRILLIANCE EXTRA

AERO

DATE OF ISSUE: 08/23/2001

SUPERCEDES: 03/16/1999

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms: Trade Name & Synonyms:
N/A BRILLIANCE EXTRA AERO

Chemical Family: Formula Mixture:
AQUEOUS DETERGENT SOLUTION X

Manufacturer's Name:
CHEMSEARCH DIV. OF NCH CORP.

Address:
BOX 152170
IRVING, TX 75015

Prepared By: C Williamson/Chemist
Product Code Number: 5520
Emergency Phone Number: 800-424-9300

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS:

Chemical Name (Ingredients): 3-METHOXY-3-METHYL-1-BUTANOL
Hazard: IRRITANT
TLV: N/E 1.
PEL: N/E 2.
STEL: N/E
CAS#: 56539-66-3

Chemical Name (Ingredients): ISOPROPANOL
Hazard: COMB/IRR
TLV: 400PPM 1.
PEL: 400PPM 2.
STEL: 500PPM 1.
CAS#: 67-63-0

SECTION III - PHYSICAL DATA

Boiling Point (f): 180°
Specific Gravity (H2O=1): 1.03
Vapor Pressure (MM HG): 145psi
Color: BLUE-GREEN
Vapor Density (Air=1): 2
Odor: AMMONIA AND LAVENDER
PH @ 100%: 12
Clarity: CLEAR
Volatile by Volume: >99
Evaporation Rate (BU A/C=1): 1.6
H2O Solubility: COMPLETE
Viscosity: NON-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point: 140°F / SETAFLASH
Flammable Limits: ISOPROPANOL LEL: 2.0 UEL:12.7

Extinguishing Media:

Foam: X Alcohol Foam: X CO2: X
Dry Chemical: X Water Spray: X Other:

Special Fire Fighting Procedures:

FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS TO PREVENT BURSTING.

Unusual Fire and Explosion Hazards:

THERE IS NO FLAME EXTENSION OR BURNBACK. USE CARE AS SPILLS MAY BE SLIPPERY.

Aerosol Level (NFPA 30B): 1

NFPA 704 Hazard Rating:

(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

Health: 2 Flammability: 2 Instability: 0 Special:

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:

400 PPM AS ISOPROPANOL 1.

Effects of Overexposure:

-Acute(Short Term Exposure)

EYES: CAUSES IRRITATION SEEN AS TEARING AND REDNESS. PROLONGED CONTACT MAY CAUSE CORNEAL DAMAGE. SKIN: MAY CAUSE IRRITATION SEEN AS ITCHING AND REDNESS. INHALATION: MAY CAUSE RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. ADVERSE CLINICAL REACTIONS FROM EXTREME EXPOSURES TO ISOPROPANOL VAPORS MAY CAUSE DIZZINESS, DROWSINESS, HEADACHE, NAUSEA, VOMITING, DIARRHEA, DECREASED URINATION, LOSS OF REFLEXES, CNS AND RESPIRATORY DEPRESSION, HYPOTENSION, STUPOR AND UNCONSCIOUSNESS. INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA. INGESTION OF ISOPROPANOL MAY CAUSE CNS DEPRESSION, HEADACHE, DROWSINESS, LOSS OF COORDINATION, HYPOTENSION, HYPOTHERMIA, KIDNEY AND LIVER DYSFUNCTION AND COMA.

-Chronic (Long Term Exposure)

NO CHRONIC EFFECTS KNOWN. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA AND DERMATITIS. TARGET ORGANS: CENTRAL NERVOUS SYSTEM, KIDNEYS AND LIVER.

Primary Routes of Entry: Inhalation: X Ingestion: Absorption:

Emergency and First Aid Procedures:

-Inhalation:

REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

-Eye Contact:

RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Skin Contact:

WASH AFFECTED AREAS WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Ingestion:

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS.

-Notes to Physician:

THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC: No NTP: No OSHA: No ACGIH: No
OTHER: No

VOC CONTENT: 5.7% (BY WEIGHT)

ISOPROPANOL

ORL-HMN LDLo: 5272 KG/KG 3.
ORL-RAT LD50: 5045 MG/KG 3.
IHL-RAT LC50: 16000 PPM/8H 3.
SKN-RBT LD50: 12800 MG/KG 3.
SKN-RBT SDT: 500 MG MODERATE 3.
EYE-RBT SDT: 100 MG/24H MODERATE 3.
IHL-RAT TLo:8000 PPM/8H/20W-I PERIPHERAL NERVES 3.
IHL-RAT TLo: 3500 PPM/7H FEMALE 1-19D AFTER CONCEPTION:
FETOTOXICTY 3.

ISOPROPANOL 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 TO THESE FINDINGS TO HUMANS IS UNCERTAIN.

OVEREXPOSURE TO THIS MATERIAL HAS APPARENTLY BEEN FOUND TO CAUSE MILD, REVERSIBLE LIVER EFFECTS IN LABORATORY ANIMALS.
3.

3-METHOXY-3-METHYLBUTANOL

ORL-RAT LD50: 4300 MG/KG 3.
SKIN IRRITATION: MILDLY IRRITATING TO RABBIT SKIN 3.
EYE IRRITATION: MODERATLY IRRITATING IN RABBIT EYES 3.
SKN-RBT LD50: >2000 MG/KG 3.
SUBCHRONIC IRRITATION: SLIGHT IRRITANT (RABBITS 28 DAYS) 3.
SKIN SENSITIZATION: NEGATIVE IN GUINEA PIG 3.
HUMAN SKIN PATCH TEST: NEGATIVE (MALE AND FEMALE 48 HOURS)

3.
SUBCHRONIC INHALATION TOXICITY: NO SIGNIFICANT CHANGES
(RATS 50 PPM 28 DAYS) 3.

SECTION VII - REACTIVITY DATA

Stability: Stable: X Unstable:

Conditions to Avoid: HEAT, HOT SURFACES, SPARKS OR OPEN FLAME.

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; STRONG ACIDS OR BASES; CHLORINATED COMPOUNDS, ALDEHYDES, AMINES AND ALKANOLAMINES.

Hazardous Decomposition Products:

OXIDES OF CARBON.

Hazardous Polymerization:

May Occur: Will Not Occur: X

Conditions to Avoid: N/A

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:

WEAR APPROPRIATE PROTECTIVE CLOTHING AND VENTILATE THE AREA. DUE TO THE NATURE OF THE PACKAGING, A LARGE SPILL IS UNLIKELY. PICK UP SPILLED MATERIAL WITH A CLOTH OR SUITABLE ABSORBANT AND DISPOSE OF PROPERLY.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. TYPICAL DISPOSAL IS TO WRAP THE EMPTY AEROSOL CONTAINER IN SEVERAL LAYERS OF NEWSPAPER AND DISPOSE OF IN THE TRASH. AEROSOL RECYCLING PROGRAMS ARE AVAILABLE IN MANY AREAS. DO NOT PUNCTURE OR INCINERATE THIS CONTAINER.

Neutralizing Agent:

NONE KNOWN.

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

GENERAL VENTILATION IS NORMALLY ADEQUATE.

Respiratory Protection:

NONE REQUIRED UNDER NORMAL CONDITIONS OF USE. A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS AND/OR FOR

EXPOSURE ABOVE THE ACGIH TLV OR OSHA PEL OR WHERE MISTING EXISTS.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES IF REPEATED OR PROLONGED SKIN CONTACT IS LIKELY.

Eye Protection:

SAFETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF USE PRESENTS THE LIKELIHOOD OF EYE CONTACT.

Other Protection:

NONE UNDER NORMAL CONDITIONS OF USE.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors: X Outdoors: Heated:
Refrigerated:

Minimum Temperature: 35°F. Maximum Temperature: 120°F.

Precautions to be taken in Handling and Storing:

WASH THOROUGHLY AFTER HANDLING. DO NOT USE OR STORE NEAR HEAT, HOT SURFACES, SPARKS OR OPEN FLAME.

Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THIS PRODUCT. FOLLOW LABEL DIRECTIONS.

SECTION XI - REGULATORY INFORMATION

Chemical Name	CAS Number	Upper % Limit
ISOPROPYL ALCOHOL	67-63-0	5

Those Ingredients listed above are subject to the reporting requirements of 313 of Title III and of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2001.

2. OSHA PEL.

3. VENDOR'S MSDS.

ALL COMPONENTS IN THIS PRODUCT CAN BE FOUND IN THE CURRENT TSCA INVENTORY.

----- IRR:IRRITANT,
FLAM/FLAMM:FLAMMABLE, COMB:COMBUSTIBLE, CORR:CORROSIVE
CARC:CARCINOGENIC, TOX:TOXIC, N/A:NOT APPLICABLE, N/E:NOT
ESTABLISHED, COC:CLEVELAND OPEN CUP, PMCC:PENSKY-MARTIN
CLOSED CUP, TCC:TAGLIABUE CLOSED CUP, LEL:LOWER EXPLOSION
LIMIT, UEL:UPPER EXPLOSION LIMIT, NFPA:NATIONAL FIRE PROTECTION
ASSOCIATION, IARC:INTERNATIONAL AGENCY FOR THE RESEARCH ON
CANCER, NTP:NATIONAL TOXICOLOGY PROGRAM, OSHA:OCCUPATIONAL
SAFETY & HEALTH ADMINISTRATION, ACGIH:AMERICAN CONFERENCE OF
GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV:THRESHOLD LIMIT
VALUE, PEL:PERMISSIBLE EXPOSURE LIMIT, STEL:SHORT-TERM EXPOSURE
LIMIT, MLD:MILD, MOD:MODERATE, SEV:SEVERE, MUT:MUTAGENIC,
ASPHYX:ASPHYXIANT, PNOS: PARTICULATES (INSOLUBLE) NOT
OTHERWISE SPECIFIED, SDT:STANDARD DRAIZE TEST, ORL: ORAL, HMN:
HUMAN, IHL:INHALATION

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