

BUYER: 30142039

ORDER #: 0266@Y

BATCH #: 070680030

STICKER #: 070680484

MODE #: 2SL1

CODE #: 9611619046201616602189

PRODUCT NAME: HYDRA TURF, O/G

MATERIAL SAFETY DATA SHEET: HYDRA TURF, O/G

Section I - General Information

1016-00000 - 1444 1

Date of Issue:

03/26/1999 12:00:00 AM

Chemical Name & Synonyms:

Chemical Family:

Chemical Formula:

Manufacturer Name:

UNITED DIVISION OF NCH CORP.

Manufacturer Address:

1016-00000

WINDY, TEXAS 75115

Prepared By:

Regulation/Compliance:

Product Code Number:
0353

Supersedes:
3/26/1999 12:00:00 AM
Trade Name & Synonyms:
HYDRA TURF, O/G
Formula is a mixture: [N]

Emergency Phone Number:
800-424-9300

Section II - Hazardous Ingredients

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)	Hazard	TLV	PEL	STEL	CAS #
ISOPROPYL ALCOHOL	COMB/IRR	400 PPM 1	400 PPM 2	500 PPM 1	67-63-0
ETHOXALATED ALCOHOLS	IRITANT	N/E 1	N/E 2	N/E	68439-46-3

Section IIa - Non-Hazardous Ingredients

(NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER US TRADE)
Secret Registry #: 409363 - 5694P

Section III - Physical Data

Boiling Point (°F): 180°	Specific Gravity (H ₂ O=1): 1.01
Vapor Pressure (mm Hg): 17.2	Color: COLORLESS
Vapor Density (Air=1): 1.1	Odor: ALCOHOL
pH @ 100% : 6.5	Clarity: TRANSPARENT
% Volatile by Volume: 61.8	Evaporation Rate (BuAc=1): 0.4
H ₂ O Solubility: COMPLETE	Viscosity: SLIGHT VISCIOUS

Section IV - Fire and Explosion Hazard

Flash Point: 120°F
Flammable Limits: ISOPROPYL ALCOHOL
LEL: 2.0%
Method Used: T.C.C.
UEL: 12.7%
Aerosol Level (NFPA 30B): N/A

Extinguishing Media:

Water [X] Alcohol Foam [X] CO2
Dry Chemical [X] Water Spray [] Other

NFPA 704 Hazard Rating:

4-Extreme Health: 1
3-High Flammability: 2
2-Moderate Instability: 0
1-Slight Special:
0-Insignificant

Special Fire Fighting Procedures:

FIRE FIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE OF THE RESPONDING FIRE.

Usual Fire and Explosion Hazards:

USE FIRE-EXPOSED CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING. USE CARE AS SPILLS MAY BE SLIPPERY. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION AND FLASHBACK.

Section V - Health and Hazard Data

Threshold Limit Value:

5 PPM FOR ISOPROPYL ALCOHOL 1.

Effects of Overexposure:

Acute (Short Term Exposure)

CONTACT: CAUSES IRRITATION SEEN AS TEARING AND REDNESS. MAY CAUSE TISSUE DAMAGE IF NOT REMOVED PROMPTLY. SKIN CONTACT: MAY CAUSE IRRITATION SEEN AS REDNESS AND REDNESS. INHALATION: CAUSES RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. AT HIGH VAPOR CONCENTRATIONS, INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, DIZZINESS, DROWSINESS, WEAKNESS, UNCONCIOUSNESS AND POSSIBLE ANESTHETIC EFFECTS FROM CENTRAL NERVOUS SYSTEM. INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA.

Chronic (Long Term Exposure)

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

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Primary Routes of Entry

Inhalation Ingestion Absorption

Emergency 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 1 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 NTP OSHA ACGIH Other

VOC CONTENT: 5.0% BY WEIGHT; 6.2% BY VOLUME; 49 G/L

ISOPROPYL ALCOHOL
OEL-HMN LD50: 3570 MG/KG 3.
OEL-RAT LD50: 5045 MG/KG 3.
IHL-RAT LC50: 16600 PPM/8H 3.
SKN-RBT LD50: 12800 MG/KG 3.
SKN-RBT-SDT: 500 MG MILD 3.
EYE-RBT-SDT: 10 MG MODERATE 3.

CS-11 ETHOXYLATED ALCOHOLS
OEL-RAT LD50: 1378 MG/KG 3.
SKN-RBT LD50: >2 GM/KG 3.
SKN-RAT TDLo: 1950 MG/KG/13W-I 3.

Section VII - Reactivity Data

Stability

Stable Unstable

Hazardous Polymerization

Will not occur May occur

Conditions to Avoid:

AVOID HEAT, HOT SURFACES, SPARKS AND OPEN FLAMES.

Conditions to Avoid:

N/A

Incompatibility (Materials to Avoid):

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

Hazardous Decomposition Products:

OXIDES OF CARBON.

Section VIII - Spill Or Leak Procedures

Steps to be Taken if Material is Released or Spilled:

WEAR APPROPRIATE PROTECTIVE CLOTHING. ELIMINATE ALL SOURCES OF IGNITION AND VENTILATE THE AREA. USE ONLY NON-SPARKING EQUIPMENT. USE CARE AS SPILLS MAY BE SLIPPERY. DIKE AND CONTAIN SPILL. ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. PREVENT RUNOFF FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER. FLUSH AREA WITH WATER.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Neutralizing Agent:

N/A

Section IX - Special Protection Information

Required Ventilation:

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE EXCESSIVE LEVELS OF VAPORS OR MISTS. LOCAL VENTILATION IS PREFERRED BECAUSE IT PREVENTS DISPERSION INTO WORK AREAS BY CONTROLLING IT AT ITS SOURCE.

Respiratory Protection:

RESPIRATORS SHOULD BE SELECTED BY AND USED UNDER THE DIRECTION OF A TRAINED HEALTH AND SAFETY PROFESSIONAL FOLLOWING REQUIREMENTS FOUND IN OSHA'S FEDERAL STANDARD (29 CFR 1910.134) AND ANSI'S STANDARD FOR RESPIRATORY PROTECTION (Z88.2-1992). FOR CONCENTRATIONS ABOVE THE TLV AND/OR PEL BUT LESS THAN 10 TIMES THESE LIMITS, A NIOSH APPROVED HALF-FACEPIECE RESPIRATOR EQUIPPED WITH APPROPRIATE CHEMICAL CARTRIDGES MAY BE USED. FOR CONCENTRATIONS GREATER THAN 10 TIMES THE TLV AND/OR PEL, CONSULT THE NIOSH RESPIRATOR DECISION LOGIC FOUND IN PUBLICATION NO. 87-115 OR ANSI Z88.2-1992.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES IF REPEATED OR PROLONGED SKIN CONTACT IS LIKELY. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR HAND PROTECTION, 29 CFR 1910.138.

Eye Protection:

SAFETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF APPLICATION PRESENTS THE LIKELIHOOD OF EYE CONTACT. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR EYE AND FACE PROTECTION, 29 CFR 1910.133.

Other Protection:

WEAR GENERAL-DUTY WORK CLOTHES AND SHOES.

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Section X - Storage and Handling Information

Storage Temperature

Storage Conditions

Max: 128°F Min: 35°F

Indoors Outdoors Heated Refrigerated

Precautions to be Taken in Handling and Storing:

DO NOT STORE MATERIAL IN ITS ORIGINAL CONTAINER. KEEP THE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. USE WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, OPEN ELECTRICAL SWITCHES AND OPEN FLAME. EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUES WHICH MAY EXHIBIT THE HAZARDS OF THE PRODUCT. TO AVOID POSSIBLE EXPLOSION DO NOT PRESSURIZE, CUT, WELD, SOLDER, DRILL, GRIND OR EXPOSE EMPTY CONTAINERS TO HEAT, HOT SURFACES, SPARKS OR OPEN FLAMES. GROUND AND BOND CONTAINER WHEN NEAR FLAMMABLE VAPORS AND ALL SOURCES OF IGNITION.

Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS. TRACES OF FREE ETHYLENE OXIDE MAY BE PRESENT IN THIS PRODUCT AND COULD ACCUMULATE IN THE HEADSPACE OF STORAGE AND TRANSPORT VESSELS.

Section XI - Regulatory Information

Chemical Name

CAS Number

Upper % Limit

None

None of the ingredients listed above are subject to the reporting requirements of 311 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 172.

Please call 1-800-527-9919 for additional information if you are a California customer. This MSDS is not intended for users in the state of California.

Section XII - References

1. FEDERAL LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND TOXICOLOGICAL EXPOSURE INDICES, ACGIH, 2002.

2. MSDS PDF.

3. LISTING OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFORweb, 2003.

4. ALL THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPT FROM LISTING.

5. R:IRRITANT, FLAM/FLAMM:FLAMMABLE, COMB:COMBUSTIBLE, CORR:CORROSIVE CARC:CARCINOGENIC, TOX:TOXIC, N/A:NOT APPLICABLE, N/E:NOT ESTABLISHED, COC:CLEVELAND OPEN CUP, CFC:CLEVELAND CLOSED CUP, TOC:TAGLIAPIRE CLOSED CUP, H&M:HEALTH HAZARD.

6. PEL:PERMISSIBLE EXPOSURE LIMIT, OSHA:OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH:AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, 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, REPR:REPRODUCTIVE, PPOS:PARTICULATES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT:STANDARD DRAIZE TEST, ORL:ORAL, IHL:INHALATION, HMN:HUMAN

7. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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