

CUST# 0178079
BATCH: 012760030
ZONE #: SSRM
BARCODE #: 9611019075339516783577
PRODUCT NAME: CITRUS FULLBACK

ORDER #: 03058Y
STICKER #: 012760803

MATERIAL SAFETY DATA SHEET: CITRUS FULLBACK

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(000000-000000- -0616)

DATE OF ISSUE	SUPERSEDES
5/08/2001	5/08/2001

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms
N/A

Trade Name & Synonyms
CITRUS FULLBACK

Chemical Family:
ORANGE TERPENE/FATTY AMIDE/ALKENE BLEND

Formula Mixture --> X

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

Address:
BOX 152170
IRVING, TX 75015

Prepared By:
C Williamson/Chemist

Product Code Number
0616

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 #
D-LIMONENE	COMB/IRR	NOT EST. 1	NOT EST. 2	NOT EST.	5985-27-5
1-TETRADECENE	IRRITANT	NOT EST. 1	NOT EST. 2	NOT EST.	1120-36-1
1-DODECENE	IRRITANT	NOT EST. 1	NOT EST. 2	NOT EST.	112-41-4
1-CETADECENE	IRRITANT	NOT EST. 1	NOT EST. 2	NOT EST.	112-88-9
TALL-OIL FATTY AMIDE, N,N-BIS(HYDROXYETHYL)	IRRITANT	NOT EST. 1	NOT EST. 2	NOT EST.	68155-20-4
2-ETHYL-1-DODECENE	IRRITANT	NOT EST. 1	NOT EST. 2	NOT EST.	19780-34-8
2-BUTYL-1-DECENE	IRRITANT	NOT EST. 1	NOT EST. 2	NOT EST.	51655-65-3

SECTION III - PHYSICAL DATA

Boiling Point (F):	435°	Specific Gravity (H2O=1):	0.80
Vapor Pressure (MM HG):	0.29	Color:	AMBER
Vapor Density (Air=1):	4.8	Odor:	ORANGE
PH @ 100% :	8.5@10%	Clarity:	TRANSPARENT
% Volatile by Volume:	91.7	Evaporation Rate (BU A/C=1):	0.04
H2O Solubility:	EMULSIFIABLE	Viscosity:	NON-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point 159°F / T.C.C.	Flammable Limits D-LIMONENE 8302°F	LEL 0.7%	UEL 6.1%
Extinguishing Media X --Foam --Alcohol Foam X --CO2 X --Dry Chemical X --Water Spray --Other			
Special Fire Fighting Procedures: FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING.			
Unusual Fire and Explosion Hazards: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION AND FLASHBACK.			
Aerosol Level (NFPA 30B): N/A			
NFPA 704 Hazard Rating: (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme) 2 --Health 2 --Flammability 0 --Instability --Special			

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:
NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

Effects of Overexposure:

-Acute (Short Term Exposure)
INHALATION: MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT, DROWSINESS OR AN ALLERGIC RESPIRATORY REACTION. SKIN CONTACT: MAY CAUSE IRRITATION SEEN AS REDNESS AND REDNESS OR DEFATTING OF SKIN ON PROLONGED CONTACT; MAY CAUSE ALLERGIC SKIN REACTION.
EYE CONTACT: CAUSES IRRITATION SEEN AS REDNESS AND TEARING; REPEATED OR PROLONGED CONTACT MAY CAUSE CONJUNCTIVITIS. INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA. INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL.

-Chronic (Long Term Exposure)
MAY CAUSE RESPIRATORY OR SKIN SENSITIZATION IN INDIVIDUALS SENSITIVE TO ORANGE OIL (D-LIMONENE). MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS. TARGET ORGANS: CENTRAL NERVOUS SYSTEM AND BLOOD-FORMING ORGANS.

SECTION V - HEALTH HAZARD DATA (Continued)

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

Emergency and First Aid Procedures:

-Inhalation:

REMOVE FROM 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. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

-Notes to Physician:

THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY. INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC--> No NTP--> No OSHA--> No ACGIH--> No OTHER--> No

D-LIMONENE

ORL-RAT LD50: 4400 MG/KG 3.
ORL-MUS LD50: 5600 MG/KG 3.
SKN-RBT LD50: > 5G/KG 3.
ORL-RBT TDLo: 1500 MG/KG/5D-1 3.

1-TETRADECENE

NO TOXICITY DATA AVAILABLE

1-DODECENE

NO TOXICITY DATA AVAILABLE

1-OCTADECENE

NO TOXICITY DATA AVAILABLE

MIXTURE OF 2-ETHYL-1-DODECENE, 2-BUTYL-1-DECENE AND 2-HEXYL-1-OCTENE

SKN-RBT: PRIMARY IRRITATION SCORE IS 2.79/24 HR 4.

SKN-RBT: EU IRRITATION SCORE IS 1.3 AND 1.1/24-72 HR 4.

TALL-OIL FATTY AMIDE, N,N-BIS(HYDROXYETHYL)

NO TOXICITY DATA AVAILABLE

VOC CONTENT OF UNDILUTED PRODUCT (WEIGHT %): 20%

VOC CONTENT AT 1:3 DILUTION: 5%

SECTION VII - REACTIVITY DATA

Stability: X <--Stable <--Unstable

Conditions to Avoid:

HEAT, HOT SURFACES, SPARKS, OPEN FLAME.

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; STRONG ACIDS. REACTS EXPLOSIVELY WITH IODINE PENTAFLUOROETHYLENE AND POLYTETRAFLUOROETHYLENE.

Hazardous Decomposition Products:

OXIDES OF CARBON AND NITROGEN.

Hazardous Polymerization:

<--May Occur

X <--Will Not Occur

Conditions to Avoid:

N/A

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:

ELIMINATE ALL SOURCES OF IGNITION. WEAR APPROPRIATE PROTECTIVE CLOTHING. CONTAIN SPILL AND ABSORB LIQUID WITH INERT MATERIAL. PICK UP AND PLACE IN A LABELED CONTAINER FOR PROPER DISPOSAL. THE AREA CAN BE CLEANED WITH WATER TO EMULSIFY ANY REMAINING PRODUCT. THIS EMULSION MUST BE PICKED UP AND DISPOSED OF PROPERLY. DO NOT FLUSH TO SEWER. PREVENT PRODUCT FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER.

Waste Disposal Method(s):

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

Neutralizing Agent:

WATER WILL EMULSIFY THE PRODUCT.

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

GENERAL VENTILATION IS NORMALLY ADEQUATE. LOCAL VENTILATION (A FAN) IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE MISTS OR VAPORS.

Respiratory Protection:

NONE REQUIRED UNDER NORMAL CONDITIONS OF USE. A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS OR WHERE MISTING EXISTS.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES SHOULD BE WORN.

Eye Protection:

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

Other Protection:

WEAR GENERAL-DUTY WORK CLOTHES AND SHOES.

SECTION IX - SPECIAL PROTECTION INFORMATION (Continued)

SECTION X - STORAGE AND HANDLING INFORMATION

Temperature: Indoors--> X Outdoors--> Heated--> Refrigerated-->
(1) Temperature: 32°F Maximum Temperature: 120°F

Precautions to be Taken in Handling and Storing:

KEEP AWAY FROM ALL SOURCES OF IGNITION. STORE IN A COOL, WELL-VENTILATED AREA. KEEP THE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

Other Precautions:

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

SECTION XI - REGULATORY INFORMATION

Chemical Name	CAS Number	Upper & Limit
None		

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

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. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2000.

2. OSHA PEL.

3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 2000.

4. 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, FMCC: PENSLEY-MARTIN CLOSED CUP,
TAG: 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: ASPHYXANT, PNOC: PARTICULATES NOT OTHERWISE CLASSIFIED, SDT: STANDARD DRAIZE TEST, ORL: ORAL, HMN:
HUMAN, IHL: INHALATION

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