



SAFETY DATA SHEET

Page 1 of 4

1. IDENTIFICATION

PRODUCT NAME: ORBIT

RECOMMENDED USE: MANUAL DISHWASH

RESTRICTIONS ON USE: DO NOT USE IN A MANNER INCONSISTENT WITH THE LABEL.

LABEL BRAND: U S CHEMICAL

SDS 100003 CODE 057001, 057003

U S CHEMICAL

316 HART STREET

WATERTOWN, WI 53094 USA

MEDICAL EMERGENCY:

1-866-923-4913 USA

SPILL EMERGENCY:

1-800-424-9300 USA

(8 A.M. TO 5 P.M. CST MONDAY TO FRIDAY)

INTERNET ADDRESS:

WWW.USCHEMICAL.COM

2. HAZARD(S) IDENTIFICATION

CLASSIFICATION: NOT OSHA HAZARDOUS

LABEL ELEMENTS

SIGNAL WORD: NONE

PICTOGRAMS: NONE

HAZARD STATEMENTS: NONE

PRECAUTIONARY STATEMENTS: NONE

FIRST AID: NONE REQUIRED BY OSHA.

SUPPLEMENTAL INFORMATION

CAUTION: May be mildly irritating to eyes. In case of contact, flush with plenty of water. If irritation occurs and persists, get medical attention.

EMERGENCY TELEPHONE: 1-866-923-4913

KEEP OUT OF REACH OF CHILDREN. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

HAZARDS NOT OTHERWISE CLASSIFIED: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT(S)	CAS #	WEIGHT %
ETHYL ALCOHOL	64-17-5	1.50

4. FIRST-AID MEASURES

Page 2 of 4

IF IN EYES: FLUSH WITH PLENTY OF WATER. IF IRRITATION OCCURS AND PERSISTS, GET MEDICAL ATTENTION.

IF ON SKIN: FLUSH WITH PLENTY OF WATER. IF IRRITATION OCCURS AND PERSISTS, GET MEDICAL ATTENTION.

IF SWALLOWED: IF CONSCIOUS, DILUTE BY DRINKING UP TO A CUPFUL OF MILK OR WATER AS TOLERATED.

IF INHALED: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED.

EMERGENCY TELEPHONE: 1-866-923-4913

MOST IMPORTANT SYMPTOMS / EFFECTS: MAY BE MILDLY IRRITATING TO EYES.

MEDICAL CONDITIONS AGGRAVATED: NONE KNOWN.

NOTE TO PHYSICIAN: CALL 1-866-923-4913 FOR EXPOSURE MANAGEMENT ASSISTANCE.

5. FIRE-FIGHTING MEASURES

CHEMICAL HAZARDS: NON-FLAMMABLE.

COMBUSTION PRODUCT HAZARDS: OXIDES OF CARBON, SULFUR + OTHER FUMES.

METHODS: SELECT EXTINGUISHER AND METHODS BASED ON FIRE SIZE AND TYPE.

EQUIPMENT: WEAR SCBA AND FULL PROTECTIVE GEAR AS CONDITIONS WARRANT.

NFPA RATING: HEALTH-1/FLAMMABILITY-0/ INSTABILITY-0/SPECIAL HAZARD-N.AP.

SUITABLE EXTINGUISHERS: WATER, DRY CHEMICAL, CO₂ OR FOAM SUITABLE FOR FIRE.

UNSUITABLE EXTINGUISHERS: NO RESTRICTIONS BASED ON CHEMICAL HAZARDS.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: KEEP PEOPLE OUT OF AREA. WEAR RUBBER BOOTS. BE CAREFUL NOT TO SLIP. WASH THOROUGHLY AFTER CLEAN-UP.

ENVIRONMENTAL PRECAUTIONS: PREVENT SPILL FROM ENTERING DRAIN, STORM SEWER OR SURFACE WATERWAY. PREVENT WATER AND SOIL CONTAMINATION.

CLEAN-UP METHODS: SMALL SPILLS MAY BE WIPED UP AND RINSED WITH WATER. FOR LARGER SPILLS, DIKE TO CONTAIN. PUMP TO LABELED CONTAINER OR ABSORB SPILLAGE AND SCOOP UP WITH INERT ABSORBENT MATERIAL. AFTER SPILL COLLECTION, RINSE AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES.

7. HANDLING AND STORAGE

HANDLING: FOLLOW ALL LABEL DIRECTIONS. INSTRUCT PERSONNEL ABOUT PROPER USE, HAZARDS, PRECAUTIONS, AND FIRST AID MEASURES. AVOID CONTACT WITH EYES. DO NOT TASTE OR SWALLOW. PRODUCT RESIDUE MAY REMAIN ON OR IN EMPTY CONTAINERS. HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER.

STORAGE: KEEP CONTAINER CLOSED WHEN NOT IN USE. STORAGE AT AMBIENT TEMPERATURES IN A DRY AREA OUT OF DIRECT SUNLIGHT. PROTECT FROM FREEZING. ROTATE STOCK REGULARLY. KEEP AWAY FROM FOOD AND DRINK. KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Page 3 of 4

EXPOSURE LIMITS: ETHYL ALCOHOL = 1000 PPM TWA (ACGIH/OSHA)

ENGINEERING CONTROLS: NONE REQUIRED. GENERAL ROOM VENTILATION IS ADEQUATE.

PERSONAL PROTECTION

EYES: NONE REQUIRED WITH NORMAL USE.

HANDS: NONE REQUIRED WITH NORMAL USE.

RESPIRATORY: N.A.P.

FEET: N.A.P.

BODY: N.A.P.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: GOLD LIQUID

ODOR: LEMON

pH CONCENTRATE: 6.0

pH @ 2500 PPM SOLUTION: N.A.V.

pH @ USE DILUTION: N.A.V.

PHYSICAL STATE: LIQUID

RELATIVE DENSITY (WATER): 1.060

SOLUBILITY (WATER): COMPLETE

VAPOR PRESSURE: N.A.V.

VAPOR DENSITY: N. AV.

VISCOOSITY: VISCOUS

AUTO-IGNITION TEMPERATURE: N.A.V.

DECOMPOSITION TEMPERATURE: N.A.V.

EXPLOSIVE LIMITS (LEL/UEL): NONE

EVAPORATION RATE: N.A.V.

FLAMMABILITY (SOLID, GAS): N.A.P.

FLASH POINT: NONE

INITIAL BOILING POINT/RANGE: N.A.V.

MELTING POINT/FREEZING POINT: N.A.V.

ODOR THRESHOLD: N.A.V.

PARTITION COEFF. (N-OCTANOL/WATER): N.A.V.

OTHER: N.A.V.

10. STABILITY AND REACTIVITY

REACTIVITY: NO HAZARD.

CHEMICAL STABILITY: STABLE.

POSSIBILITY OF HAZARDOUS REACTIONS: NONE KNOWN. WILL NOT POLYMERIZE.

CONDITIONS TO AVOID: TEMPERATURES BELOW 35°F (1.6°C) OR ABOVE 120°F (49°C).

MATERIALS TO AVOID: DIRECT MIXING WITH OTHER CHEMICALS. MIX ONLY WITH WATER.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE UNDER NORMAL CONDITIONS.

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: EYES, SKIN, INGESTION, INHALATION.

INFORMATION ON ROUTES OF EXPOSURE: NO LC50/LD50 TEST DATA FOR MIXTURE.

ACUTE EFFECTS/SYMPOTMS

EYES: MAY BE MILDLY IRRITATING TO EYES. MAY CAUSE REDNESS AND WATERING.

SKIN: MAY BE MILDLY IRRITATING TO SENSITIVE SKIN.

SKIN: MAY BE MILDLY IRRITATING TO SENSITIVE SKIN.

INGESTION: MAY CAUSE IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

INHALATION: NONE KNOWN.

CHRONIC / OTHER EFFECTS: NO REPORTABLE GERM CELL MUTAGENS, SKIN SENSITIZERS, RESPIRATORY SENSITIZERS, REPRODUCTIVE TOXINS OR ASPIRATION HAZARDS.

SPECIFIC TARGET ORGANS (SINGLE/REPEATED): NONE KNOWN.

NUMERICAL MEASURES OF TOXICITY: ATEmix (ORAL-RAT) = >5000 MG / KG

CARCINOGENS: NO REPORTABLE ACGIH, IARC, NTP, OR OSHA CARCINOGENS.

12. ECOLOGICAL INFORMATION

Page 4 of 4

ECOTOXICITY / CHEMICAL FATE: NOT AVAILABLE**13. DISPOSAL CONSIDERATIONS**

DISPOSAL METHOD: DISPOSE OF CONTENTS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL APPLICABLE LAWS AND REGULATIONS. CONSULT STATE AND LOCAL AUTHORITIES FOR RESTRICTIONS ON DISPOSAL OF CHEMICAL WASTE. MANAGE CHEMICAL WASTES THROUGH AN APPROVED WASTE TREATMENT FACILITY. DO NOT REUSE EMPTY CONTAINER. RINSE EMPTY CONTAINER THOROUGHLY WITH WATER BEFORE DISCARDING CONTAINER IN ACCORDANCE WITH CURRENT LOCAL COMMUNITY CODES. PLEASE RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE.

14. TRANSPORT INFORMATION**DOT / IMDG / IATA / TDG:** NOT REGULATED**15. REGULATORY INFORMATION****EPA CERCLA RQ:** NO**EPA REGISTERED:** NO**OSHA HAZARDOUS:** NO**PHOSPHORUS CONTENT:** 0.00%**PROPOSITION 65:** NO**SARA 311/312 HAZARDS:** NO**SARA 313 CHEMICALS:** NO

STATE RIGHT TO KNOW: WATER/7732-18-5, SODIUM DODECYLBENZENESULFONATE/25155-30-0, SODIUM LAURETH SULFATE/9004-82-4, LAURAMIDOPROPYLAMINE OXIDE/61792-31-2, ETHYL ALCOHOL/64-17-5

TSCA INVENTORY STATUS: ALL COMPONENTS ARE LISTED ON THE INVENTORY.

VOC: 1.50% CALCULATION METHOD USED IS BASED ON CALIFORNIA ARB STANDARD.

16. OTHER INFORMATION**PREPARATION DATE:** 2-14-14 **PREPARED BY:** RC **REVISED SECTION:** 16**ABBREVIATIONS:** N.AV. = NOT AVAILABLE N.A.P. = NOT APPLICABLE**NOTICE TO READER**

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE FOR EVALUATING ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.