

MATERIAL SAFETY DATA SHEET

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: DS-40, DS-41, DS-42, DS-43, DS-44, DS-45 SKIN DYES
 PRODUCT NAME: LIFETONE
 PRODUCT CLASS: LEATHER DYE

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NUMBER	WEIGHT PERCENT	OCCUPATIONAL EXPOSURE LIMITS	VAPOR PRESSURE mm Hg @ TEMP
DIACETONE	123-42-2	50	50 ppm PEL	0.8 @ 20°C
ISOPROPANOL	67-63-0	5	400 ppm PEL	30.0 @ 20°C
METHYL ETHYL KETONE	78-93-3	25	200 ppm OSHA	82.5 @ 20°C
BUTYL ACETATE	123-86-4	5	150 ppm TWA	10.0 @ 20°C
BUTYL ALCOHOL	71-36-3	10	100 ppm TWA PEL	5.5 @ 20°C
ALIPHATIC HYDROCARBONS	64742-95-6	5	100 ppm PEL	3.0 @ 20°C
TOLUENE	000108883	10	100 ppm (skin), 200 PEL	22.7 @ 20°C
XYLENE	1330-20-7	5	100 ppm PEL	9.5 @ 20°C

SECTION III - PHYSICAL DATA

BOILING RANGE: 174 °F
 EVAPORATION RATE: Slower than ether
 VAPOR DENSITY: Heavier than air
 % VOLATILE by VOLUME: 98%
 WEIGHT/GAL: 7.6 lbs.

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY CLASSIFICATION: FLAMMABLE LIQUID - CLASS IB
 FLASH POINT: 35 °F LEL: 1.0
 EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

UNUSUAL FIRE AND EXPLOSION HAZARDS:
 DO NOT USE WATER. FLAMMABLE LIQUID CAN RELEASE VAPORS THAT FORM FLAMMABLE MIXTURES AT TEMPERATURES AT OR ABOVE THE FLASHPOINT. ELIMINATE AND ISOLATE FROM ALL SOURCES OF IGNITION. COMBUSTION WILL PRODUCE CO2, CO, AND TOXIC GASES.

SPECIAL FIREFIGHTING PROCEDURES:
 WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE DEMAND WHEN FIGHTING FIRES. USE WATER FOG NOZZLES TO COOL CLOSED CONTAINERS.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:
 EYES - IRRITATING, MAY INJURE EYE TISSUE IF NOT PROPERLY REMOVED
 SKIN - SLIGHT IRRITATION DUE TO SOLVENTS
 INHALATION - IRRITATION TO RESPIRATORY TRACT, NOSE, THROAT, LUNGS
 INGESTION - CONSULT PHYSICIAN. DO NOT TAKE INTERNALLY
 MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:
 RESPIRATORY PROBLEMS CAN BE INCREASED BY INHALATION OF VAPORS.

PRIMARY ROUTES OF ENTRY: DERMAL, INHALATION

EMERGENCY FIRST AID PROCEDURES:

EYES - FLUSH WITH WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.
SKIN - REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA WITH SOAP AND WATER.
INHALATION - MOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IF NEEDED.
INGESTION - DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

SECTION VI - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: BURNING CAN PRODUCE CO₂ AND CO.

CONDITIONS TO AVOID: AVOID EXCESSIVE HEAT

INCOMPATIBILITY: AVOID CONTACT WITH MATERIALS CONTAINING PHOSPHORUS OR OXIDIZERS.

SECTION VII - SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

WEAR RESPIRATOR. ABSORB WITH VERMICULITE OR OTHER ABSORBENT MATERIAL. ELIMINATE ALL IGNITION SOURCES. STOP SPILL AT SOURCE TO PREVENT SPREADING.

WASTE DISPOSAL METHOD:

DESTROY BY LIQUID INCINERATION. CONTAMINATED ABSORBENT MAY BE DEPOSITED IN A LANDFILL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

SECTION VIII - SAFE HANDLING & USE INFORMATION

RESPIRATORY PROTECTION:

IF TLV OF PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA JOINTLY APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROL.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL VENTILATION TO MAINTAIN EXPOSURE BELOW TLV

PROTECTIVE GLOVES: WEAR RESISTANT GLOVES

EYE PROTECTION: CHEMICAL SPLASH GOGGLES SUGGESTED, OTHER GLASSES PERMITTED

OTHER PROTECTIVE EQUIPMENT: IMPERVIOUS CLOTHING & BOOTS PREVENT REPEATED SKIN CONTACT

HYGIENIC PRACTICES: WASH WITH SOAP AND WATER AFTER USE BEFORE EATING OR SMOKING

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN DRY AREA. KEEP CONTAINERS TIGHTLY CLOSED. PROTECT FROM PHYSICAL DAMAGE. EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES - ALL HAZARD PRECAUTIONS GIVEN IN DATA SHEET MUST BE OBSERVED. STORE BELOW 120°F.

OTHER PRECAUTIONS:

STORE LARGE QUANTITIES IN BUILDINGS DESIGNED TO COMPLY WITH OSHA 1910.106. KEEP CLOSURE TIGHT AND CONTAINERS UPRIGHT. DO NOT STORE NEAR HEAT, SPARKS, OR FLAME. DO NOT GET IN EYES. KEEP AWAY FROM CHILDREN. AVOID SKIN CONTACT. DO NOT TAKE INTERNALLY. FOR INDUSTRIAL USE ONLY.