

MATERIAL SAFETY DATA SHEET

PRODUCT CODE: 10956-072

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DalTrax 400
PRODUCT CODES: 10956-072

MANUFACTURER: Superior Industries, Inc.
STREET ADDRESS: 6180 Airways Blvd.
CITY, STATE, ZIP: Chattanooga, TN 37421

INFORMATION PHONE: 423-899-0467
EMERGENCY PHONE: 800-476-2072
FAX PHONE: 423-899-0421

PREPARED BY: Technical Service

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
*Toluene-2,4-diisocyanate	584-84-9	0.02 ppm	0.0005ppm	0.02 ppm	<1.0%
*Toluene 2,6-diisocyanate	91-06-7	0.02 ppm	0.0005ppm	0.02 ppm	<1.0%
*Crystalline Silica	14808-60-7	10mg/m3	.1mg/m3	.1mg/m3	<1.0%
Carbon	1333-86-4	3.5ppm	3.5ppm	NONE	<1.0%
Titanium Dioxide	13463-67-7	10mg/m3	10mg/m3	N/E	<7.0%
Bis(2-propylheptyl)phthalate	53306-54-0	NE	NE	NE	<5.0%
Stoddard solvent	8052-41-3	500 ppm	100 ppm	NE	<5.0%
Calcium oxide	1305-78-8	5mg/m3	2mg/m3	NE	<1.5%
talc	14807-96-6	20mg/m3	20mg/m3	20mg/m3	<7.0%
limestone	1317-65-3	15mg/m3	5mg/m3	NONE	<30.0%

*TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372.

SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Colored paste with slight odor
BOILING POINT OR RANGE: N/A
VAPOR DENSITY (AIR = 1): Not available
SPECIFIC GRAVITY (H₂O = 1): 1.21g/cm³
EVAPORATION RATE: N/A
SOLUBILITY IN WATER: insoluble

SECTION 3 NOTES:

SECTION 4: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, (**% by volume**) **UPPER:** no data available
LOWER: no data available

FLASH POINT: 185F

METHOD USED:

ASTM D3278

EXTINGUISHING MEDIA:

WATER SPRAY, FOAM, CARBON DIOXIDE

SPECIAL FIRE FIGHTING PROCEDURES:

TOXIC FUMES WILL BE EVOLVED WHEN THIS MATERIAL IS INVOLVED IN A FIRE. A SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR FIRE FIGHTERS. FIRES MAY PRODUCE NITROUS GASES, FUMES/SMOKE, ISOCYANATE, VAPOUR.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NONE KNOWN

SECTION 4 NOTES:

SECTION 5: STABILITY AND REACTIVITY

STABILITY:

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STABLE

CONDITIONS TO AVOID (STABILITY):

AVOID MOISTURE. AVOID CONTACT WITH OPEN FLAMES, HIGH HEAT AND ALL SOURCES OF IGNITIONS AND SPARKS.

INCOMPATIBILITY (MATERIAL TO AVOID):

AVOID CONTACT WITH OXIDIZING AGENTS, WATER, STRONG BASES, OR SUBSTANCES THAT REACT WITH ISOCYANATES.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

TOLYLIDENEDIISOCYANATE, CARBON MONOXIDE, HYDROGEN CYANIDE, AROMATIC ISOCYANATES, GASES/VAPOURS, CARBON OXIDES AND NITROGEN OXIDES.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

SECTION 5 NOTES:

SECTION 6: HAZARDS IDENTIFICATION

HMIS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMIBILITY: 1 REACTIVITY: 0 PERSONAL PROTECTIVE EQUIPMENT: G

POTENTIAL HEALTH EFFECTS

EYES:

IRRITATING TO EYES. HIGH VAPOR CONCENTRATIONS CAN CAUSE SEVERE IRRITATION TO THE EYES.

SKIN:

CAN CAUSE IRRITATION TO SKIN. SKIN CONTACT MAY BE A ROUTE OF ENTRY FOR LIQUIFIED GASES. SENSITIZATION AFTER SKIN CONTACT IS POSSIBLE.

INGESTION:

LIQUID CAN CAUSE SEVERE DAMAGE TO MUCOUS MEMBRANES IF SWALLOWED.

INHALATION:

HIGH CONCENTRATIONS OF VAPOR CAN CAUSE IRRITATION TO THE RESPIRATORY TRACT, NAUSEA AND DIZZINESS. MAY BE HARMFUL IF INHALED. THE SUBSTANCE MAY CAUSE SENSITIZATION OF THE RESPIRATORY TRACT. TOLUENE-2,4-DIISOCYANATE and TOLUENE 2,6-DIISOCYANATE MAY CAUSE DAMAGE TO THE LUNGS EVEN AFTER REPEATED INHALATION OF LOW DOSES, AS SHOWN IN ANIMAL STUDIES. STODDARD SOLVENT MAY CAUSE LIVER AND KIDNEY TOXICITY AND REPEATED EXPOSURES MAY RESULT IN PULMONARY CONGESTION – TESTS WITH MAMMALS, A CENTRAL NERVOUS SYSTEM DISORDER WAS OBSERVED.

HEALTH HAZARDS (ACUTE AND CHRONIC):

WARNING: COMBUSTIBLE. HARMFUL IF INHALED. SENSITIZATION CAN OCCUR IN SOME INDIVIDUALS, LEADING TO ASTHMA LIKE SPASMS OF THE BRONCHIAL TUBES AND DIFFICULTY BREATHING. INDIVIDUALS WITH A HISTORY OF RESPIRATORY ILLNESS, ASTHMATIC CONDITIONS, EYE DAMAGE OR TDI SENSITIZATION SHOULD NOT BE EXPOSED TO THIS PRODUCT. TDI IS INCLUDED IN THE NTP ANNUAL REPORT ON CARCINOGENS. RESULTS FROM A TDI HEALTH STUDY INDICATE THAT OVEREXPOSURE TO A RESPIRATORY IRRITANT, RESULTING IN LOWER RESPIRATORY TRACT SYMPTOMS COULD INCREASE THE RISKS OF DEVELOPING ASTHMA-LIKE REACTIONS FROM SUBSEQUENT EXPOSURE. CONTAINS MATERIAL WHICH CAN CAUSE CANCER. REPEATED DOSE TOXICITY: OVEREXPOSURE MAY CAUSE CNS DEPRESSION INCLUDING HEADACHE, DIZZINESS, NAUSEA, AND LOSS OF CONSCIOUSNESS.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

IN SENSITIZED INDIVIDUALS, SENSITIZATION REACTIONS MAY BE ELICITED BY STRUCTURALLY SIMILAR SUBSTANCES. RESPIRATORY SENSITIZATION MAY RESULT IN ALLERGIC (ASTHMA-LIKE) SIGNS IN THE LOWER RESPIRATORY TRACT INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING, THE ONSET OF WHICH MAY BE DELAYED. REPEATED INHALATION OF HIGH CONCENTRATIONS MAY CAUSE LUNG DAMAGE, INCLUDING REDUCED LUNG FUNCTION, WHICH MAY BE PERMANENT. SUBSTANCES ELICITING LOWER RESPIRATORY TRACT IRRITATION MAY WORSEN THE ASTHMA-LIKE REACTIONS THAT MAY BE PRODUCED BY PRODUCT EXPOSURES.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC AILMENTS

CARCINOGENICITY

OSHA: YES NTP: YES IARC: YES

ADDITIONAL CARCINOGENICITY INFORMATION:

TOLUENE-2,4-DIISOCYANATE: IARC HAS CLASSIFIED THIS SUBSTANCE AS GROUP 2B (THE AGENT IS POSSIBLY CARCINOGENIC TO HUMANS) AND NTP CARCINOGEN.

TOLUENE-2,6-DIISOCYANATE: IARC HAS CLASSIFIED THIS SUBSTANCE AS GROUP 2B (THE AGENT IS POSSIBLY CARCINOGENIC TO HUMANS) AND NTP CARCINOGEN.

CRYSTALLINE SILICA: THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED THIS SUBSTANCE AS A GROUP 1 (KNOWN) HUMAN CARCINOGEN. NTP LISTED CARCINOGEN.

INFORMATION ON TITANIUM DIOXIDE: IARC HAS CLASSIFIED THIS SUBSTANCE AS GROUP 2B (THE AGENT IS POSSIBLY CARCINOGENIC TO HUMANS) IN LONG TERM STUDIES IN RATS IN WHICH THE SUBSTANCE WAS GIVEN BY INHALATION, A CARCINOGENIC EFFECT WAS OBSERVED. TUMORS WERE ONLY OBSERVED IN RATS AFTER CHRONIC INHALATIVE EXPOSURE TO HIGH CONCENTRATIONS WHICH CAUSED SUSTAINED LUNG INFLAMMATION. IN LONG TERM STUDIES IN RATS AND MICE IN WHICH THE SUBSTANCE WAS GIVEN BY FEED, A CARCINOGENIC EFFECT WAS NOT OBSERVED.

SECTION 7: FIRST AID MEASURES

EYES:

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IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE LIFTING UPPER AND LOWER LIDS, GET IMMEDIATE MEDICAL ASSISTANCE.

SKIN:

FLUSH SKIN WITH WATER FOR AT LEAST 15 MINUTES AND REMOVE ALL CONTAMINATED CLOTHING IMMEDIATELY. GET MEDICAL ATTENTION IF REDDENING OR SWELLING OCCURS.

INGESTION:

DO NOT INDUCE VOMITING. RINSE MOUTH AND THEN DRINK PLENTY OF WATER. IF VICTIM IS CONSCIOUS. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:

REMOVE TO FRESH AIR AND KEEP THE PERSON CALM. ASSIST IN BREATHING IF NECESSARY. OBTAIN MEDICAL ASSISTANCE.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

ANTIDOTE: SPECIFIC ANTIDOTES OR NUETRALIZERS TO ISOCYANATES DO NOT EXIST.

TREATMENT: TREATMENT SHOULD BE SUPPORTIVE AND BASED ON THE JUDGEMENT OF THE PHYSICIAN IN RESPONSE TO THE REACTION TO THE PATIENT.

SECTION 7 NOTES:

SECTION 8: RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: AVOID CONTACT WITH MATERIAL. WEAR THE APPROPRIATE SAFETY EQUIPMENT. DO NOT DISCHARGE INTO DRAINS/SURFACE WATERS/GROUNDWATER.

SECTION 8 NOTES:

SECTION 9: WASTE DISPOSAL

WASTE DISPOSAL METHOD:

DISPOSE OF MATERIAL AS A HAZARDOUS WASTE ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS. TDI IS LISTED AS A HAZARDOUS SUBSTANCE UNDER SECTION 261.33 (f) OF EPA'S RCRA REGULATIONS AND REQUIRES SPECIAL HANDLING FOR DISPOSAL. INCINERATE WASTE CONTAINING TDI IN A RCRA LICENSED FACILITY. RCRA:U223

SECTION 10: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

AVOID ALL EYE AND SKIN CONTACT. AVOID BREATHING VAPORS. RESEAL PARTIALLY USED CONTAINERS. PROPERLY LABEL ALL CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. OBSERVE CONDITIONS OF GOOD INDUSTRIAL HYGIENE AND SAFE WORKING PRACTICES. USE ONLY WITH ADEQUATE VENTILATION. AVOID EXCESSIVE HEAT AND HUMIDITY. STORE MATERIAL BETWEEN 50-70°F AND PROTECT AGAINST MOISTURE.

OTHER PRECAUTIONS:

BECOME FAMILIAR WITH ALL HAZARDS PRIOR TO USING THIS PRODUCT. AVOID ALL SOURCES OF IGNITION, HEAT, SPARKS AND OPEN FLAMES. IF EXPOSED TO FIRES, KEEP CONTAINERS COOL BY SPRAYING WITH WATER.

SECTION 10 NOTES:

SECTION 11: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

WHEN ATMOSPHERIC LEVELS MAY EXCEED THE OCCUPATIONAL EXPOSURE LIMITS, A NIOSH APPROVED AIR-PURIFYING RESPIRATOR EQUIPPED WITH AN ORGANIC VAPOR SORBENT AND PARTICULATE FILTER CAN BE USED AS LONG AS APPROPRIATE PRECAUTIONS AND CHANG OUT SCHEDULES ARE IN PLACE. FOR EMERGENCIES A SELF-CONTAINED BREATHING APPARATUS OR A FULL FACE RESPIRATOR IS RECOMMENDED.

VENTILATION:

AVOID BREATHING VAPORS. VENTILATION MUST BE SUFFICIENT TO CONTROL VAPORS. OBSERVE THE APPROPRIATE PEL VALUES.

PROTECTIVE GLOVES:

IMPERVIOUS GLOVES, NEOPRENE OR RUBBER AND APPROPRIATE PROTECTIVE CLOTHING.

EYE PROTECTION:

SPLASH PROOF GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

CLEAN BODY COVERING CLOTHING AS WELL AS APRON FOOTWEAR OR OTHER EQUIPMENT SHOULD BE USED AS DEEMED NECESSARY TO AVOID CONTACT WITH THE MATERIAL.

WORK HYGIENIC PRACTICES:

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OBSERVE GENERAL GOOD HYGIENIC PRACTICES. CLEAN ALL SOILED CLOTHING AND EQUIPMENT IMMEDIATELY.

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY: TOLUENE-2,4-DIISOCYANATE – ACUTELY HARMFUL FOR ORGANIC ORGANISMS. THE INHIBITION OF THE DEGRADATION ACTIVITY OF ACTIVATED SLUDGE IS NOT ANTICIPATED WHEN INTRODUCED TO BIOLOGICAL TREATMENT PLANTS IN APPROPRIATE LOW CONCENTRATIONS. THE PRODUCT MAY HYDROLYSE.

OTHER ADVERSE EFFECTS: DO NOT RELEASE UNTREATED INTO NATURAL WATERS. DO NOT ALLOW TO ENTER SOIL, WATERWAYS OR WASTE WATER CHANNELS. THE PRODUCT HAS NOT BEEN TESTED. THE STATEMENT HAS BEEN DERIVED FROM THE PROPERTIES OF THE INDIVIDUAL COMPONENTS.

SECTION 13: TRANSPORTATION INFORMATION

LAND TRANSPORT (USDOT) NOT CLASSIFIED AS A DANGEROUS GOOD UNDER TRANSPORT REGULATIONS.

SEA TRANSPORT (IMDG) NOT CLASSIFIED AS A DANGEROUS GOOD UNDER TRANSPORT REGULATIONS.

AIR TRANSPORT (IATA/ICAO) NOT CLASSIFIED AS A DANGEROUS GOOD UNDER TRANSPORT REGULATIONS.

SECTION 14: REGULATORY INFORMATION

FEDERAL REGULATIONS:

TSCA: ALL INGREDIENTS LISTED

OSHA HAZARD CATEGORY: IARC 1, 2A OR 2B CARCINOGEN; NTP LISTED CARCINOGEN; CHRONIC TARGET ORGAN EFFECTS REPORTED; OSHA PEL ESTABLISHED; ACGIH TLV ESTABLISHED. COMBUSTABLE LIQUID.

EPCRA 311/312 (HAZARD CATEGORIES)

ACUTE, CHRONIC, FIRE

EPCRA 313: TOLUENE-2,4-DIISOCYANATE CAS# 584-84-9

TOLUENE-2,6-DIISOCYANATE CAS# 91-08-7

STATE REGULATIONS:

LIMESTONE: MA, PA – CAS# 1317-65-3

TITANIUM DIOXIDE: MA, NJ, PA – CAS# 13463-67-7

TALC: MA, PA, NJ – CAS# 14807-96-6

STODDARD SOLVENT: MA, NJ, PA – CAS# 8052-41-3

CALCIUM OXIDE: MA, NJ, PA – CAS#1305-78-8

TOLUENE-2,4-DIISOCYANATE: MA, PA, NJ – CAS#584-84-9

TOLUENE-2,6-DIISOCYANATE: MA, PA, NJ – CAS#91-08-7

CRYSTALLINE SILICA: MA, PA, NJ – CAS# 14808-60-7

CARBON BLACK: MA, NJ, PA – CAS# 1333-86-4

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER PROTECTIVE HARM. THIS PRODUCT CONTAINS SUBSTANCES ON THE CALIFORNIA PROPOSITION 65 LIST.

SECTION 15: DISCLAIMER

DISCLAIMER: THE INFORMATION HERE IN IS BASED ON THE DATA AVAILABLE AND IS BELIEVED TO BE ACCURATE, HOWEVER, THE MANUFACTURER MAKES NO WARRANTY EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS OBTAINED FROM THE USE THEREOF. ACCORDINGLY, WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THIS PRODUCT. THIS INFORMATION IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF THIS PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING THIS PRODUCT, DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION FURNISHED HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED. ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.