

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0154

PRODUCT NAME TRANS, TRANS-2,4-NONADIENAL

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FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

Carcinogenicity

NTP NO OSHA NO

IARC MONOGRAPH NO

OSHA PEL NOT ESTABLISHED ACGIH TLV NOT ESTABLISHED

Acute Toxicity Data

ORAL LD50 NOT ESTABLISHED
DERMAL LD50 NOT ESTABLISHED
INHALATION LC50 NOT ESTABLISHED

Health Hazards (Acute and Chronic)

Skin Contact MAY CAUSE IRRITATION

Inhalation NOT ESTABLISHED

Eye Contact MAY CAUSE IRRITATION

Ingestion NOT ESTABLISHED

Other Effects

The health hazard information is based on laboratory animal test data for the individual components of this product in their pure form as provided under 29 CFR 1910.1200 (d)(5)(ii). The user should consider the relevancy of this information in a manner consistent with its particular purpose

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

SYNONYM (E,E)-nona-2,4-dienal

Formula C9 H14 O CAS-No EC-No 5910-87-2 227-629-5

4. FIRST-AID GUIDE:

Eyes

IMMEDIATELY FLUSH EYES WITH LARGE QUANTITIES OF COLD CLEAN WATER FOR AT LEAST 15 MINUTES CALL A PHYSICIAN IMMEDIATELY

Skin

WASH WITH SOAP AND WATER. FLUSH WITH LARGE QUANTITIES OF WATER

IF IRRITATION PERSISTS CALL A PHYSICIAN

Inhalation

REMOVE TO FRESH AIR

CALL A PHYSICIAN IF NECESSARY

Ingestion

ADMINISTER WATER OR MILK TO DILUTE CONTACT A PHYSICIAN OR

LOCAL POISON CONTROL CENTER IMMEDIATELY

DO NOT INDUCE VOMITING

5. FIRE-FIGHTING GUIDE:

Flash Point (°F) 195

Method Used CC

Extinguishing Media

Carbon Dioxide; Dry Chemical; Universal Type Foam Special Fire Fighting Procedures: Evacuate unprotected and untrained personnel. Trained firefighting personnel should be equipped with self-contained breathing apparatus and full protective gear

Unusual Fire, Explosion and Stability Hazards

NONE KNOWN

6. ACCIDENTAL RELEASE GUIDE:

REMOVE ANY SOURCES OF FLAME OR SPARKS. IF IN A CONFINED AREA NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED. ABSORB SPILLS ON VERMICULITE OR OTHER SUITABLE ABSORBENT MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER

7. HANDLING AND STORAGE:

IT IS RECOMMENDED THAT THIS MATERIAL BE STORED IN TIGHT FULL CONTAINERS IN A COOL, DRY PLACE AWAY FROM LIGHT, CONSULT STORAGE SHEET FOR FULL DETAILS

8. EXPOSURE AND PERSONAL PROTECTION:

Eves

IN GENERAL, THE USE OF SAFETY GLASSES IS RECOMMENDED. IF THE MATERIAL IS TO BE HANDLED IN A MANNER WHERE SPLASHING MAY OCCUR, THE USE OF SPLASH GOGGLES OR FACE SHIELD IS RECOMMEND

Respiratory

IN WELL VENTILATED AREAS RESPIRATORY PROTECTION IS NOT NORMALLY EQUIRED, IN CONFINED, POORLY VENTILATED AREAS THE USE OF NIOSHAPPROVED ESPIRATORY PROTECTION MAYBE REQUIRED OR IF MATERIAL IS RATED TOXIC BY INHALATION

Equipment and Apparel

THE USE OF CHEMICAL RESISTANT GLOVES IS RECOMMENDED. ACCEPTABLE INDUSTRIAL HYGIENE PRACTICES SHOULD BE MAINTAINED. LIMIT EXPOSURE TO PRODUCT WHENEVER POSSIBLE, WASH AFTER ANY CONTACT. THOROUGHLY WASH ANY CONTAMINATED CLOTHING OR SHOES

Ventilation

VENTILATION MEETING ACGIH STANDARDS SHOULD BE EMPLOYED

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State LIQUID % Volatile N/A

Odor STRONG, FATTY

Melting Point (°C) N/A

Color PALE YELLOW

Vapor Density (Air = 1) >1

Solubility in Water INSOLUBLE

Refractive Index @ 20C 1.522
Boiling Point (oC) 90
Water Content N/A
Vapor Pressure (mm Hg @ 20oC) N/A
Alcohol Content N/A
Specific Gravity @ 25C (H20=1.0) 0.860

10. STABILITY AND REACTIVITY:

This material presents no significant hazard

Hazardous Polymerization will not occur and it will not react violently with water

Contact with highly reactive chemical oxidants should be avoided

If burned this product will produce carbon monoxide and/or carbon dioxide

11. DISPOSAL RECOMMENDATIONS:

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

12. TRANSPORTATION INFORMATION:

DOT (US)

Not dangerous goods.

IMDG

Not dangerous goods

IATA

Not dangerous goods

13. REGULATORY INFORMATION:

US FEDERAL

HMIS III

PHYSICAL HAZARD 1

HEALTH 1
FLAMMABILITY 2
REACTIVITY 0
PERSONAL PROTECTION X

TSCA

CAS# 5910-87-2 IS LISTED ON THE TSCA INVENTORY

HEALTH & SAFETY REPORTING LIST

NONE OF THE CHEMICALS ARE ON THE HEALTH & SAFETY REPORTING LIST CHEMICAL TEST RULES

NONE OF THE CHEMICALS IN THIS PRODUCT ARE UNDER A CHEMICAL TEST RULE

SECTION 12B

NONE OF THE CHEMICALS ARE LISTED UNDER TSCA SECTION 12B

TSCA SIGNIFICANT NEW USE RULE

NONE OF THE CHEMICALS IN THIS MATERIAL HAVE A SNUR UNDER TSCA

CERCLA HAZARDOUS SUBSTANCES AND CORRESPONDING RQS

NONE OF THE CHEMICALS IN THIS MATERIAL HAVE AN RQ

SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES

NONE OF THE CHEMICALS IN THIS PRODUCT HAVE A TPQ

SECTION 313

NO CHEMICALS ARE REPORTABLE UNDER SECTION 313

CLEAN AIR ACT

THIS MATERIAL DOES NOT CONTAIN ANY HAZARDOUS AIR POLLUTANTS

THIS MATERIAL DOES NOT CONTAIN ANY CLASS 1 OZONE DEPLETORS

THIS MATERIAL DOES NOT CONTAIN ANY CLASS 2 OZONE DEPLETORS

CLEAN WATER ACT

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS HAZARDOUS SUBSTANCES UNDER THE CWA

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS PRIORITY POLLUTANTS UNDER THE CWA

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS TOXIC POLLUTANTS UNDER THE CWA

OSHA

NONE OF THE CHEMICALS IN THIS PRODUCT ARE CONSIDERED HIGHLY HAZARDOUS BY OSHA

STATE

CAS# 5910-87-2 IS NOT PRESENT ON STATE LISTS FROM CA, PA, MN, MA, FL, OR NJ CALIFORNIA PROP 65

CALIFORNIA NO SIGNIFICANT RISK LEVEL: NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED

EUROPEAN/INTERNATIONAL REGULATIONS

EUROPEAN LABELING IN ACCORDANCE WITH EC DIRECTIVES

HAZARD SYMBOLS XI F

RISK PHRASES

R 36/38 IRRITATING TO SKIN AND EYES

SAFETY PHRASES

S 7/8 KEEP CONTAINER TIGHTLY CLOSED AND DRY S16 KEEP AWAY FROM SOURCES OF IGNITION – NO

SMOKING

S 24/25 AVOID CONTACT WITH SKIN AND EYES

S 37 WEAR SUITABLE GLOVES S 39 WEAR EYE/FACE PROTECTION

WGK (WATER DANGER/PROTECTION)

CAS# 5910-87-2

CANADA - DSL/NDSL

CAS# 5910-87-2 IS LISTED ON CANADA'S DSL LIST

CANADA - WHMIS

THIS PRODUCT HAS A WHMIS CLASSIFICATION OF D2B.

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THOSE REGULATIONS

14. OTHER INFORMATION:

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the MSDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the MSDS. The user should review these regulations to ensure full compliance.