SAFETY DATA SHEET



1. Identification

Material name Versagen 100

Recommended Use: Solvent

Restrictions: None Known

Version # 01

Revision Date 11/6/2015 **CAS #** 67784-80-9

Manufacturer Darling Ingredients Inc.

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41076

United States

1-800-800-4841

Telephone numbers - 24 hour

emergency assistance

Telephone numbers - General

assistance

te 1-800-800-4841 **E-mail** info@darlingii.com



2. Hazards Identification

Emergency overview Clear liquid with yellow tint

Warning (Irritant Skin and Eyes)

HEALTH HAZARDSPRACTICALY NON-TOXIC

FLAMMABILITY HAZARDS

NOT A FLAMMABLE OR COMUSTIBLE MATERIAL PER OSHA 29 CFR 1910.1200©

REACTIVITY HAZARDS

STABLE

Potential health effects

Skin

Routes of exposure Inhalation, ingestion, skin and eye contact

Eyes If irritation should occur, it is expected to be transient

Prolonged or excessive skin contact with this product may cause mild skin irritation.

May cause an allergic reaction in some individuals.

Inhalation Under normal condition, inhalation is not expected to be a problem. However,

respirator tract irritation may occur if exposed to fumes or mists.

Ingestion

Ingestion of large amounts may cause gastrointestinal disturbances. May cause

allergic reactions in some individuals.

3. Composition/information on ingredients

| Components | CAS# | Percent |
|------------------------------|------------|---------|
| Alkyl C-14-C24 Methyl Esters | 67784-80-9 | 100% |
| Impurities | CAS# | Percent |
| FREE FATTY ACIDS | Mixture | N/A |
| UNSAPONIIABLES | Mixture | <1.0 |
| WATER | 7732-18-5 | <1 |
| INSOLUBLE IMPURITES | Mixture | <0.5 |

Synonyms:

Fatty Acid Methy Esters, Fatty Acid Esters

Composition comments

Values do not reflect absolute minimums and maximums: these values are typical

which may vary from time to time.

This Safety Data Sheet is intended to communicate potential health hazards and potential physical hazards associated with the products(s) covered by this sheet, and is not intended to communicate product specification information. For product specification information, contact your DarPro representative.

Additives:

Hazardous concentration range:

N/A

4. First aid measures

First aid procedures

Flush eyes immediately with large amounts of water. Get medical attention if Eye contact

irritation persists.

Skin contact Wash area thoroughly with soap and water. Get medical attention if irritation

develops or persists.

Inhalation Not expected to be an inhalation hazard. Ingestion Rinse mouth with water. Contact physician.

Notes to physician Treat symptomatically.

5. Fire-fighting measures

Flammable properties **Extinguishing media**

Material will burn in a fire. Treat as Oil Fire.

Use dry chemical, carbon dioxide or fire-fighting foam for Class B fires to extinguish

Suitable extinguishing media fire. Water may be ineffective on fire.

Protection of firefighters

the chemical

Specific hazards arising from Combustion may produce COx and other decomposition products in the case of

incomplete combustion.

Fire fighting equipment/instructions Evacuate area and fight fire from a safe distance.

> Use water spray to cool adjacent structures and to protect personnel. Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting

safety device or any discoloration of storage tank due to fire.

Firefighters must wear NIOSH approved positive pressure breathing apparatus

(SCBA) with full face mask and full protective equipment.

6. Accidental release measures

Environmental precautions

If material is released to the environment, take immediate steps to stops and contain release. Caution should be exercised regarding personnel safety and exposure to the released material. Notify local authorities and the National Response Center, if required.

Waste Disposal Method - Dispose of according to Federal, state and/or local regulations, not to be landfilled. Do not flush to sewer.

Other Information

Spills can be very slippery. Liquid may be mopped-up, soaked-up with inert absorbents, or pumped. Wash floors with soap and hot water and rinse with hot water.

Absorb spill with inert material (e.g. dry sand or earth) then place in a chemical waste container. Large Spills: Dike far ahead of liquid spill for later disposal.

Stop leak when safe to do so.

See Exposure Controls. Personal Protection (Section 8)

Emergency action

Keep unnecessary people away; isolate hazard area and deny entry. IF TANK, RALCAR OR TANK TRUCK IS INVOLVED IN A FIRE, isolate for 800 meters (1/2 mile) in all directions. Evacuate area endangered by release as required. (See Exposure Controls/Personal Protection, Section 8) Stay upwind.

7. Handling and storage

Handling

Standard precautions appropriate for handling liquids

Good personal hygiene practices such as properly handling contaminated clothing, using wash facilities before entering public areas and restricting eating, drinking and smoking to designated areas are essential for preventing personal chemical contamination. do not breathe fumes or vapor. Avoid contact with skin or eyes.

Storage

Store in tightly closed containers in a cool, dry isolated, well-ventilated area away from heat, sources of ignition and incompatibles. Avoid contact with strong oxidizers.

Empty containers may contain material residue. Do not reuse without adequate precautions.

Do not eat, drink or smoke in areas of use or storage.

8. Exposure controls/personal protection

Occupational exposure limits Not available

Engineering controlsVentilation and other forms of engineering controls are the preferred means for

controlling exposures.

Personal protective equipment

Eye / face protection Keep away from eyes. Eye contact can be avoided by using chemical safety glasses,

goggles and/or face shield. Have eye washing facilities readily available where eye

contact can occur.

Skin protection Avoid skin contact with this material. Use appropriate chemical protective gloves

when handling. Additional protective clothing may be necessary.

Respiratory protection None required.

9. Physical and chemical properties

Physical Stare Form Liquid

Color Clear liquid to light yellow tint

Odor Light musty odor **Odor threshold** Characteristic **Physical Stare Form** Not available **Vapor Pressure** <5 mm Hg @ 72F Vapor density Not available >400F **Boiling Point** Melting point/freezing point -1C Solubility (water) Insoluble

Solubility (water)InsolubleSpecific gravity0.87 @ (25° C)Relative densityNot availableFlash point> 266° F PMCCFlammability limits in air,Not available

upper, % by volume

Flammability limits in air,

lower, % by volume

Auto-ignition temperature

VOC

Not available

Not available

1.7 g/L

Evaporation rate Less than 0.005 @ 25 C (Butyl Acetate = 1)

Viscosity4.25 mm2/sPercent volatileNot availablePartition coefficientNot available

(n-octanaol/water)

Pour point N/A

Molecular weightNot availableMolecular formulaNot available

Other Data

Cloud point

Chemical family Fatty Acid Methy Esters

Density N/A

Electrostatic properties

Conductivity Not available
Not available

10. Stability and reactivity

Chemical stability Material is stable under normal conditions.

Conditions to avoid Avoid unventilated areas, excessive heat, open flames, sparks and ungrounded

electrical equipment.

Incompatible materials Avoid strong oxidizing agents See precautions under Handling & Storage (Section 7)

Hazardous decomposition Not anticipated under normal conditions.

products

Possibility of hazardous reactions Not anticipated under normal conditions.

11. Toxicological information

Routes of exposure Inhalation, ingestion, skin and eye contact

Numerical measures of toxicity N/A

Eye contact Get medical attention if eye irritation persists.

Skin contact Get medical attention if skin irritation develops or persists.

Inhalation If breathing difficulty occurs, get medical attention .

Ingestion Routine use of this product is not expected to cause any situation which could lead

to ingestion.

12. Ecological information

Ecotoxicity Material not classified as harmful to aquatic organisms. However, secondary effects

such as lowered dissolved oxygen when introduced to surface water can be toxic to

aquatic life.

Persistence and degradability

Bioaccumulation/

Accumulation

Mobility in environmental

media

Readily biodegradable in the environment

This material is not expected to bio accumulate in aquatic animals.

Not classified in terms of mobility in air, soil and water.

13. Disposal considerations

Disposal instruction T

This material, as supplied, when discarded or disposed of, is not a hazardous waste according to Federal Regulations (40 CFR 261). Under the Resource Conservation and Recovery Act. (RCRA), it is the responsibility of the user of the material to characterize and determine, at the time of disposal, whether the material is a

hazardous waste subject to RCRA.

For additional handling information and protection of employees, see Section 7 (Handling and Storage) and Section 8 (Exposure Controls/Personal Protection).

14. Transport information

General BILL OF LADING - BULK (U.S. DOT): Non-regulated by DOT

BILL OF LADING - NON-BULK (U.S. DOT): Non-regulated by DOT

UN number (United Nations hazardous material #)

Not a hazardous material

15. Regulatory information

US federal regulations

All ingredients are on the TSCA inventory, or are not required to be listed on the TSCA inventory.

This material does not contain toxic chemicals (in excess of the applicable de minimis concentration) that are subject to the annual toxic chemical release reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313 (40 CFR 372).

Check local, regional or state/provincial regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Failure to report may results in substantial civil and criminal penalties.

State regulations

Based on available information this product does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65. Reformulation, use or processing of this material may affect its composition and require re-evaluation.

16. Other information

NFPA ratings Health: 0

Flammability: 1 Instability: 0

Disclaimer

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. Adequate training and instruction should be given by you or your employees and affected personnel. Appropriate warnings and sage handling procedures should be provided by you to handlers and users. Appropriate warnings and sage handling procedures should be provided by you to handlers and users. Additionally, the user should review this information, satisfy itself as to its suitability and completeness, and pass on the information to its employees or customers in accordance with the applicable federal, state, provincial or local hazard communication requirements. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, vendor neither assumes nor retains any responsibility for any damage or injury resulting from abnormal use, from any failure to adhere to appropriate practices, or from any hazards inherent in the nature of the material. Moreover, unless an employee or a customer accesses or receives a SDS directly from the company, there is no assurance that a document obtained from alternate sources is the most currently available SDS.

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This data sheet contains changes from Handling and storage: Handling

the previous version in section(s): Exposure controls/personal protection: Skin Protection

Physical & Chemical Properties: Multiple Properties

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