

**SAFETY DATA SHEET**

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 084019

**VESTAN AW 46**

Date of the previous version: 2015-05-06

Revision Date: 2015-10-13

Version 1.01

**1. IDENTIFICATION****Product identifier**

Product name VESTAN AW 46

**Other means of identification**

Product Code(s) 084019

Number 7TT  
Substance/mixture Mixture**Recommended use of the chemical and restrictions on use**

Identified uses Antiwear, food industry, Hydraulic oil, Machine oil.

Uses advised against Do not use for any purpose other than the one for which it is intended

**Details of the supplier of the safety data sheet**Supplier Address TOTAL Specialties USA Inc  
1201 Louisiana Street, Suite 1800  
Houston, TX 77002  
Phone: +1 800 323 3198

Contact Point Technical/ HSEQ

E-mail Address USRMLIN-info@total.com

**Emergency telephone number**Company Phone Number +1 (908) 862-9300  
Emergency telephone CHEMTREC: +1 800 424 9300 (24h)**2. HAZARDS IDENTIFICATION****Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Label elements**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Version GNAM



SDS # : 084019

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Version 1.01

**Unknown Acute Toxicity**

Not applicable

**Hazards not otherwise classified (HNOC)**

None known

**Other information****Physical-Chemical Properties**

Contaminated surfaces will be extremely slippery.

**Environmental properties**

Should not be released into the environment.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**4. FIRST AID MEASURES****First aid measures for different exposure routes****General advice**

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

**Eye contact**

Rinse thoroughly with plenty of water, also under the eyelids.

**Skin contact**

Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse.

High pressure jets may cause skin damage. In this case, the casualty should be sent immediately to hospital.

**Inhalation**

Move to fresh air.

**Ingestion**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

**Most important symptoms/effects, acute and delayed****Skin contact**

Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.

**Eye contact**

Not classified.

**Inhalation**

Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.

Version GNAM



SDS #: 084019

**VESTAN AW 46**

Date of the previous version: 2015-05-06

Revision Date: 2015-10-13

Version 1.01

|  |   |
|--|---|
| Ingestion  | Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| Symptoms   | Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.            |
| <b><u>Indication of immediate medical attention and special treatment needed, if necessary</u></b> |   |
| Notes to physician   | Treat symptomatically.  |

**5. FIRE-FIGHTING MEASURES**

|   |  |
|---|--|
| <b><u>Suitable Extinguishing Media</u></b>                          | Carbon dioxide (CO <sub>2</sub> ). ABC powder. Foam. Water spray or fog.   |
| <b><u>Unsuitable Extinguishing Media</u></b>                        | Do not use a solid water stream as it may scatter and spread fire.   |
| <b><u>Special Hazard</u></b>  | Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. |
| <b><u>Explosion Data</u></b>  |  |
| <b><u>Sensitivity to Mechanical Impact</u></b>                      | None.  |
| <b><u>Sensitivity to Static Discharge</u></b>                       | None.  |
| <b><u>Protective Equipment and Precautions for Firefighters</u></b> | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.   |

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

|                                   |  |
|-----------------------------------|--|
| <b><u>General Information</u></b> | Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. |
| <b><u>Other information</u></b>   | See Section 12 for additional information.   |

**Environmental precautions**

|                                   |  |
|-----------------------------------|--|
| <b><u>General Information</u></b> | Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained. |
|-----------------------------------|--|

**Methods and materials for containment and cleaning up**

|                                       |   |
|---------------------------------------|---|
| <b><u>Methods for cleaning up</u></b> | Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. |
|---------------------------------------|---|

**7. HANDLING AND STORAGE**

Version GNAM



SDS # : 084019

**VESTAN AW 46**

Date of the previous version: 2015-05-06

Revision Date: 2015-10-13

Version 1.01

**Precautions for safe handling****Advice on safe handling**

When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

**Prevention of fire and explosion**

Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.

**Hygiene measures**

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

**Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

Keep away from food, drink and animal feedingstuffs. Keep in a bonded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

**Materials to Avoid**

Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure limits**

Mineral oil mist:  
USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined).

**Exposure controls****Engineering Measures**

Apply technical measures to comply with the occupational exposure limits.

**Individual protection measures, such as personal protective equipment****General Information**

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

**Eye/Face Protection**

If splashes are likely to occur, wear: Safety glasses with side-shields.

**Skin and body protection**

Wear suitable protective clothing. Protective shoes or boots.

Version GNAM



SDS #: 084019

**VESTAN AW 46**

Date of the previous version: 2015-05-06

Revision Date: 2015-10-13

Version 1.01

**Hand Protection**

Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

**Respiratory protection**

None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

**9. PHYSICAL AND CHEMICAL PROPERTIES**Physical and chemical properties

|                              |               |                          |                                      |
|------------------------------|---------------|--------------------------|--------------------------------------|
| Color                        |               | amber                    |                                      |
| Physical State @20°C         |               | liquid                   |                                      |
| Odor                         |               | Petroleum distillates    |                                      |
| Odor Threshold               |               | No information available |                                      |
| <u>Property</u>              | <u>Values</u> | <u>Remarks</u>           | <u>Method</u>                        |
| pH                           |               | Not applicable           |                                      |
| Melting point/range          |               | No information available |                                      |
| Boiling point/boiling range  |               | Not applicable           |                                      |
| Flash point                  | 226 °C        |                          | ASTM D 92 Cleveland Open Cup (COC)   |
|                              | 439 °F        |                          | ASTM D 92. Cleveland Open Cup (COC). |
| Evaporation rate             | < 1           | @ 25 °C                  |                                      |
| Flammability Limits in Air   |               | No information available |                                      |
| upper                        | -             | No information available |                                      |
| Lower                        | -             | No information available |                                      |
| Vapor Pressure               | < 0.1         | @ 38 °C                  |                                      |
| Vapor density                | > 8           | (Air = 1)                |                                      |
| Relative density             | 0.865         | @ 15.6 °C                | ASTM D 1298                          |
| Density                      | 865 kg/m³     | @ 15.6 °C                | ASTM D 1298                          |
| Water solubility             |               | Insoluble                |                                      |
| Solubility in other solvents |               | No information available |                                      |
| logPow                       |               | No information available |                                      |

Version GNAM



SDS # : 084019

**VESTAN AW 46**

Date of the previous version: 2015-05-06

Revision Date: 2015-10-13

Version 1.01

|                                    |                          |            |
|------------------------------------|--------------------------|------------|
| Autoignition temperature           | No information available |            |
| Decomposition temperature          | No information available |            |
| Viscosity, kinematic               | 46.0 mm <sup>2</sup> /s  | ASTM D 445 |
| Explosive properties               | Not explosive            |            |
| Oxidizing Properties               | Not applicable           |            |
| Possibility of hazardous reactions | Not applicable           |            |
| Other information                  |                          |            |

|                |                          |
|----------------|--------------------------|
| Freezing Point | No information available |
|----------------|--------------------------|

|            |        |           |
|------------|--------|-----------|
| Pour point | -23 °C | ASTM D 97 |
|------------|--------|-----------|

**10. STABILITY AND REACTIVITY**

|   |   |
|---|---|
| <u>Reactivity</u>                         | No information available.   |
| <u>Chemical stability</u>                 | Stable under recommended storage conditions.  |
| <u>Possibility of hazardous reactions</u> | None under normal processing.   |
| <u>Conditions to Avoid</u>                | Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. |
| <u>Incompatible Materials</u>             | Strong oxidizing agents.  |
| <u>Hazardous Decomposition Products</u>   | None under normal use.  |

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

|                     |   |
|---------------------|---|
| Product Information | Product does not present an acute toxicity hazard based on known or supplied information. |
|---------------------|---|

Information on likely routes of exposure

|                              |   |
|------------------------------|---|
| Principle Routes of Exposure | Inhalation, Ingestion, Eye contact, Skin contact. |
|------------------------------|---|

**Numerical measures of toxicity**Information on toxicological effects

|              |   |
|--------------|---|
| Symptoms     | Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  |
| Skin contact | Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent. |
| Eye contact  | Not classified.   |

Version GNAM



SDS #: 084019

**VESTAN AW 46**

Date of the previous version: 2015-05-06

Revision Date: 2015-10-13

Version 1.01

|            |  |
|------------|--|
| Inhalation | Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Ingestion  | Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.        |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                 |  |
|-----------------|--|
| Sensitization   | Not classified as a sensitizer.              |
| Carcinogenicity | This product is not classified carcinogenic. |

|                       |  |
|-----------------------|--|
| Mutagenicity          | This product is not classified as mutagenic.                               |
| Reproductive toxicity | This product does not present any known or suspected reproductive hazards. |
| Aspiration Hazard     | Not classified.  |

**12. ECOLOGICAL INFORMATION**Ecotoxicity**Acute aquatic toxicity - Product Information**

No information available

**Acute aquatic toxicity - Component Information**

No information available

**Chronic aquatic toxicity - Product Information**

No information available

**Chronic aquatic toxicity - Component Information**

No information available

|                                  |                           |
|----------------------------------|---------------------------|
| Effects on terrestrial organisms | No information available. |
|----------------------------------|---------------------------|

Persistence and degradability

|                     |                           |
|---------------------|---------------------------|
| General Information | No information available. |
|---------------------|---------------------------|

Bioaccumulative potential

|                     |                           |
|---------------------|---------------------------|
| Product Information | No information available. |
|---------------------|---------------------------|

Version GNAM



TOTAL

SDS # : 084019

## VESTAN AW 46

Date of the previous version: 2015-05-06

Revision Date: 2015-10-13

Version 1.01

logPow No information available

Component Information No information available.

### Mobility

Soil Given its physical and chemical characteristics, the product generally shows low soil mobility

Air Loss by evaporation is limited

Water Insoluble The product spreads on the surface of the water.

### Other adverse effects

General Information No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment

Waste Disposal Methods Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO/IATA Not regulated

IMDG/IMO Not regulated

ADR/RID Not regulated

ADN Not regulated

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations





SDS #: 084019

**VESTAN AW 46**

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Revision Date: 2015-10-13

Version 1.01

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

|                                   |    |
|-----------------------------------|----|
| Acute Health Hazard               | no |
| Chronic Health Hazard             | no |
| Fire Hazard                       | no |
| Sudden Release of Pressure Hazard | no |
| Reactive Hazard                   | no |

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

No information available

**16. OTHER INFORMATION**

|                    |                 |                |                   |                                 |
|--------------------|-----------------|----------------|-------------------|---------------------------------|
| <b><u>NFPA</u></b> | Health Hazard 0 | Flammability 1 | Instability 0     | Physical and chemical hazards - |
| <b><u>HMIS</u></b> | Health Hazard 0 | Flammability 1 | Physical Hazard 0 | Personal protection X           |

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

Version GNAM



SDS # : 084019

**VESTAN AW 46**

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Revision Note  
Abbreviations, acronyms

2015-10-13  
\*\*\* Indicates updated section

**Legend**

Section 8  
ACGIH - American Conference of Governmental Industrial Hygienists  
OSHA - Occupational Safety and Health Administration  
NIOSH - National Institute for Occupational Safety and Health  
TLV - Threshold Limit Values  
PEL - Permissible Exposure Limits  
IDLH - Immediately Dangerous to Life or Health concentrations  
TWA - Time Weight Average  
STEL - Short Term Exposure Limits  
S\* - Skin notation  
TSCA - Toxic Substance Control Act

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the safety data sheet