



SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 083483

VALONA AU 5510 AMS

Date of the previous version: 2015-05-13

Revision Date: 2015-10-13

Version 2.01

1. IDENTIFICATION

Product identifier

Product name VALONA AU 5510 AMS

Other means of identification

Product Code(s) 083483

Number 8C1

Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Cutting fluid.

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

Flammable liquids - Category 4
Skin corrosion/irritation - Category 2
Specific target organ systemic toxicity (single exposure) - Category 3
Aspiration toxicity - Category 1

Label elements

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**DANGER****Hazard Statements**

Combustible liquid
 Causes skin irritation
 May cause drowsiness or dizziness
 May be fatal if swallowed and enters airways

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid breathing dust/fume/gas/mist/vapours/ spray
 Use only outdoors or in a well-ventilated area
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 Keep cool

Precautionary Statements - Response

Specific treatment (see Section 4 on this label)

Skin

IF ON SKIN: Wash with plenty of soap and water
 If skin irritation occurs: Get medical advice/attention
 Take off contaminated clothing and wash before reuse

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician if you feel unwell

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 Do NOT induce vomiting

Fire

In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
 Store locked up

Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

Unknown Acute Toxicity

12% of the mixture consists of ingredient(s) of unknown toxicity

Hazards not otherwise classified (HNOC)

None known

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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

| Chemical Name | CAS-No | Weight % |
|--|------------|----------|
| Distillates (petroleum), hydrotreated light | 64742-47-8 | 55-60 |
| Distillates (petroleum), hydrotreated light naphthenic | 64742-53-6 | 20-25 |
| Polysulfides, di-tert-dodecyl | 68425-15-0 | 3 |
| 2,5-bis(octyldithio)-1,3,4-thiadiazole | 13539-13-4 | <1 |

** The exact percentage (concentration) of composition has been withheld as a trade secret****

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. Keep eye wide open while rinsing.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Wash contaminated clothing before reuse.

Inhalation

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract.

Ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately. If vomiting occurs, the head should be kept low so that the vomit does not enter the lungs (aspiration).

Protection of First-aiders

Use personal protective equipment.

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

Causes skin irritation.

Eye contact

Not classified.

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| | |
|-------------------|---|
| Inhalation | May cause drowsiness and dizziness. Aspiration into lungs can produce severe lung damage. |
| Ingestion | May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis. |
| Symptoms | Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Skin disorders. Redness. Hives. Itching. Rashes. Difficulty breathing. |

Indication of immediate medical attention and special treatment needed, if necessary

| | |
|---------------------------|------------------------|
| Notes to physician | Treat symptomatically. |
|---------------------------|------------------------|

5. FIRE-FIGHTING MEASURES

| | |
|---|--|
| <u>Suitable Extinguishing Media</u> | Carbon dioxide (CO ₂). ABC powder. Foam. Water spray or fog. |
| <u>Unsuitable Extinguishing Media</u> | Do not use a solid water stream as it may scatter and spread fire. |
| <u>Special Hazard</u> | 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. |
| <u>Explosion Data</u> | |
| <u>Sensitivity to Mechanical Impact</u> | None. |
| <u>Sensitivity to Static Discharge</u> | None. |
| <u>Protective Equipment and Precautions for Firefighters</u> | 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**

| | |
|----------------------------|--|
| General Information | 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. |
| Other information | See Section 12 for additional information. |

Environmental precautions

| | |
|----------------------------|--|
| General Information | 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. See Section 12 for additional Ecological Information. |
|----------------------------|--|

Methods and materials for containment and cleaning up

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Methods for cleaning up

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

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 bunded 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

Metalworking fluids:
USA: NIOSH (REL) TWA 0.5 mg/m³.

Exposure controls

Engineering Measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

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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. |
| 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**

| | | | |
|------------------------------------|------------------------|--------------------------|-----------------------------------|
| Appearance | | limpid | |
| Color | | clear yellow | |
| 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 | 93 °C 199 °F | | Tag closed cup Tag closed cup. |
| Evaporation rate | < 1 | @ 25 °C | |
| Flammability Limits in Air | | No information available | |
| upper | - | No information available | |

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| | | | |
|------------------------------------|-----------------------|--------------------------|----------|
| Lower | - | No information available | |
| Vapor Pressure | 0.35 | @ 38 °C | |
| Vapor density | | No information available | |
| Relative density | 0.890 | @ 25 °C | |
| Density | 882 kg/m ³ | @ 15 °C | ISO 3675 |
| Water solubility | | Not applicable | |
| Solubility in other solvents | | No information available | |
| logPow | | No information available | |
| Autoignition temperature | | No information available | |
| Decomposition temperature | | No information available | |
| Viscosity, kinematic | 12 mm ² /s | @ 40 °C | ISO 3104 |
| Explosive properties | Not explosive | | |
| Oxidizing Properties | Not applicable | | |
| Possibility of hazardous reactions | Not applicable | | |
| <u>Other information</u> | | | |
| Specific Gravity | 0.890 | @ 25 °C | |
| Freezing Point | | No information available | |

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

| | |
|-----------------|------------|
| ATEmix (oral) | 5321 mg/kg |
| ATEmix (dermal) | 2073 mg/kg |

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Inhalation**ATEmix (inhalation-dust/mist)** 17.3 mg/l**ATEmix (inhalation-vapor)** 29.9 mg/l**Component Information**

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|--|
| Distillates (petroleum), hydrotreated light 64742-47-8 | LD50 > 5000 mg/kg bw (rat - OECD TG 420) | LD50 > 2000 mg/kg bw (rabbit -OECD TG 402) | LC50 (4h) > 5.28 mg/l (vapour) (rat - OECD 403) |
| Distillates (petroleum), hydrotreated light naphthenic 64742-53-6 | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | |
| Polysulfides, di-tert-dodecyl 68425-15-0 | LD50 19500 mg/kg (Rat - OECD 401) | LD50 2000 mg/kg (Rat - OECD 402) | LC50 (4h) > 15.5 mg/l (Rat - OECD 403) |
| 2,5-bis(octyldithio)-1,3,4-thiadiazole 13539-13-4 | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rat) | 3.09 mg/L (Rat) 4h |

Information on toxicological effects**Symptoms**

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Skin disorders. Redness. Hives. Itching. Rashes. Difficulty breathing.

Skin contact

Causes skin irritation.

Eye contact

Not classified.

Inhalation

May cause drowsiness and dizziness. Aspiration into lungs can produce severe lung damage.

Ingestion

May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

Irritating to skin.

Sensitization

Not classified as a sensitizer.

Carcinogenicity

This product is not classified carcinogenic.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|--|-------|------|-----|------|
| Distillates (petroleum), hydrotreated light naphthenic 64742-53-6 | - | - | | - |

Mutagenicity

This product is not classified as mutagenic.

Reproductive toxicity

This product does not present any known or suspected reproductive hazards.

Target Organ Effects (STOT)

May cause drowsiness and dizziness.

Aspiration Hazard

Not classified. May be fatal if swallowed and enters airways. Risk of serious damage to the lungs (by aspiration).

12. ECOLOGICAL INFORMATION

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Ecotoxicity**Acute aquatic toxicity - Product Information**

No information available

Acute aquatic toxicity - Component Information

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates | Toxicity to microorganisms |
|---|---|---|---|---|
| Distillates (petroleum), hydrotreated light 64742-47-8 | EL50 (72 h) 1-3 mg/l (Pseudokirchneriella subcapitata - OECD 201) | LL50 (96 h) 2-5 mg/l (Oncorhynchus mykiss - OECD 203) | EL50 (48 h) 1.4 mg/l (Daphnia magna - OECD 202) | |
| Distillates (petroleum), hydrotreated light naphthenic 64742-53-6 | | LC50 (96h) > 5000 mg/L Oncorhynchus mykiss () | EC50 (48h) > 1000 mg/L Daphnia magna | |
| Polysulfides, di-tert-dodecyl 68425-15-0 | | LC50 (96h) > 100 mg/l (Danio rerio-OCDE 203) LOEC: 100 mg/l | | IC50 (16h) : 10.000 mg/l (Pseudomonas putida) |

Chronic aquatic toxicity - Product Information

No information available

Chronic aquatic toxicity - Component Information

| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates | Toxicity to fish | Toxicity to microorganisms |
|--|---|---|--|----------------------------|
| Distillates (petroleum), hydrotreated light 64742-47-8 | | NOEL (21d) 0.89 mg/l (Daphnia magna - OECD 211) | NOEL (14/28d) 0.098 mg/l (Oncorhynchus mykiss - QSAR Petrotox) | |
| Polysulfides, di-tert-dodecyl 68425-15-0 | NOEC (72h) < 0.08 mg/l (Pseudokirchneriella subcapitata-OECD 201) | NOEC (48h) < 0.1 mg/l (daphnia magna) | | |

Effects on terrestrial organisms No information available.**Persistence and degradability****General Information** No information available.**Bioaccumulative potential****Product Information** No information available.**logPow** No information available**Component Information** .

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| Chemical Name | log Pow |
|---|---------|
| Polysulfides, di-tert-dodecyl 68425-15-0 | 6.2 |

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

Environmental hazard Yes

ADN Not regulated

15. REGULATORY INFORMATION**U.S. Federal Regulations**

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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 | Yes |
| Chronic Health Hazard | no |
| Fire Hazard | Yes |
| 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

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois |
|---|---------------|------------|--------------|----------|
| Distillates (petroleum), hydrotreated light naphthenic 64742-53-6 | X | | | |

16. OTHER INFORMATION

| | | | | |
|-------------|-----------------|----------------|-------------------|---------------------------------|
| NFPA | Health Hazard 1 | Flammability 2 | Instability 0 | Physical and chemical hazards - |
| HMIS | Health Hazard 1 | Flammability 2 | Physical Hazard 0 | Personal protection X |

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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

Revision Date: 2015-10-13

Revision Note *** Indicates updated section

Abbreviations, acronyms**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

IDHL - 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