



SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 083653

DYNATRANS AC 50

Date of the previous version: not applicable

Revision Date: 2015-10-05

Version 1

1. IDENTIFICATION

Product identifier

Product name DYNATRANS AC 50

Other means of identification

Product Code(s) 083653

Number MOX
Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Transmission 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

Serious eye damage/eye irritation - Category 2B
Skin sensitization - Category 1

Label elements



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**WARNING****Hazard Statements**

May cause an allergic skin reaction
Causes eye irritation

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapours/ spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Wash hands and face thoroughly after handling

Precautionary Statements - Response

Specific treatment (see Section 4 on this label)

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Skin

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

Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

Unknown Acute Toxicity

No information available

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

| Chemical Name | CAS-No | Weight % |
|------------------------------------|------------|----------|
| Nonylphenol, branched, ethoxylated | 68412-54-4 | < 0.4 |



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| | | |
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| Calcium sulfonate | ^ | < 0.4 |
| Triphenyl phosphite | 101-02-0 | <0.1 |
| O,O,O-triphenyl phosphorothioate | 597-82-0 | < 0.1 |
| Alkylphenol | 121158-58-5 | < 0.4 |

* 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 | If symptoms persist, call a physician. Show this material safety data sheet to the doctor in attendance. 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 symptoms persist, call a physician. Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse. Immediate medical attention is not required. |
| Inhalation | Move to fresh air in case of accidental inhalation of vapors. Immediate medical attention is not required. If symptoms persist, call a physician. 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 | Clean mouth with water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician. If swallowed, do not induce vomiting - seek medical advice. Drink plenty of water. |
| Protection of First-aiders | Use personal protective equipment. |

Most important symptoms/effects, acute and delayed

| | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Skin contact | May cause an allergic skin reaction. |
| Eye contact | Causes eye irritation. |
| Inhalation | Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Ingestion | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| Symptoms | Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Itching. Asthma-like and/ or skin allergy-like symptoms. |

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

| | |
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| Notes to physician | Treat symptomatically. |
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5. FIRE-FIGHTING MEASURES

| | |
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| <u>Suitable Extinguishing Media</u> | Cool containers / tanks with water spray. Use: Dry chemical. Carbon dioxide (CO ₂). Water spray. Alcohol-resistant foam. Foam. ABC powder. |
| <u>Unsuitable Extinguishing Media</u> | Do not use a solid water stream as it may scatter and spread fire. |
| <u>Special Hazard</u> | Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Flash back possible over considerable distance. 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

| | |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>General Information</u> | Remove all sources of ignition. Use personal protective equipment. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Heat, flames and sparks. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. |
| <u>Other information</u> | See Section 12 for additional information. |
| <u>Environmental precautions</u> | |
| <u>General Information</u> | Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses. Prevention of fire and explosion. A vapor suppressing foam may be used to reduce vapors. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. See Section 12 for additional Ecological Information. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. |
| <u>Methods and materials for containment and cleaning up</u> | |



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Methods for cleaning up

Dam up. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. 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). 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). Use clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

There is a hazard associated with rags, paper or any other material used to remove spills which become soaked with product. Avoid accumulation of these: they are to be disposed off safely after use. Avoid static electricity build up with connection to earth. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from open flames, hot surfaces and sources of ignition. Wear personal protective equipment. Prevent the formation of vapors, mists and aerosols. 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

Keep away from open flames, hot surfaces and sources of ignition. Design installations (machinery and equipment) to prevent burning product from spreading (tanks, retention systems, interceptors (traps) in drainage systems). OPERATE ONLY ON COLD AND DEGASSED TANKS IN VENTILATED PREMISES (TO AVOID RISK OF EXPLOSION). Do not use compressed air for filling, discharging or handling. Empty containers may contain flammable or explosive vapors.

Hygiene measures

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Regular cleaning of equipment, work area and clothing is recommended. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Wash hands with water as a precaution. Avoid breathing vapors, mist or gas. 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. Avoid prolonged and repeated contact with the skin, especially with used or waste product.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep away from direct sunlight.

Materials to Avoid

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters



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Exposure limits

Mineral oil mist:

USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined).

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.

Individual protection measures, such as personal protective equipment

General Information

Protective engineering solutions should be implemented and in use before personal protective equipment is considered.

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

Protective gloves.

Respiratory protection

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

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Regular cleaning of equipment, work area and clothing is recommended. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Wash hands with water as a precaution. Avoid breathing vapors, mist or gas. 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. Avoid prolonged and repeated contact with the skin, especially with used or waste product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Color

No information available

Physical State @20°C

liquid

Odor

Petroleum distillates

Odor Threshold

No information available



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| <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 | > 94 °C > 201 °F | | ASTM D 92 ASTM D 92. |
| Evaporation rate | | No information available | |
| Flammability Limits in Air | | No information available | |
| upper | - | No information available | |
| Lower | - | No information available | |
| Vapor Pressure | | No information available | |
| Vapor density | | No information available | |
| Relative density | 0.890 | @ 15 °C | |
| Density | 890 kg/m ³ | @ 15 °C | |
| 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 | 225 mm ² /s | @ 40 °C | |
| Explosive properties | Not explosive | | |
| Oxidizing Properties | Not applicable | | |
| Possibility of hazardous reactions | Not applicable | | |
| <u>Other information</u> | | | |
| Freezing Point | | No information available | |
| Pour point | -12 °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> | Heating in air. Heat, flames and sparks. Take precautionary measures against static discharges. Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Strong oxidizing agents. |
| <u>Incompatible Materials</u> | Strong oxidizing agents. |
| <u>Hazardous Decomposition Products</u> | Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. |

11. TOXICOLOGICAL INFORMATION



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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 - Product Information**Component Information**

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------|
| Nonylphenol, branched, ethoxylated 68412-54-4 | LD50 > 2000 mg/kg (Rat female) LD50 5000 mg/kg (Rat male) | | |
| Triphenyl phosphite 101-02-0 | LD50 1590 mg/kg (Rat - OECD 401) | > 2000 mg/kg (Rabbit) = 1180 mg/kg (Rat) | LC50 (1h) > 6.7 mg/l (Rat - aerosol - OECD 403) |

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Itching. Asthma-like and/ or skin allergy-like symptoms.

Skin contact May cause an allergic skin reaction.

Eye contact Causes eye irritation.

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Serious eye damage/eye irritation Irritating to eyes.
Sensitization May cause an allergic skin reaction.
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 Harmful to aquatic life
Harmful to aquatic life with long lasting effects

Acute aquatic toxicity - Product Information



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No experimental data available

Acute aquatic toxicity - Component Information

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates | Toxicity to microorganisms |
|--------------------------------------------------|-------------------|------------------------------------------------|-----------------------------------------------------------|----------------------------|
| Nonylphenol, branched, ethoxylated 68412-54-4 | | LC50 (96h) 0.323 mg/l (Pimephales promelas) | LC50 (48h) 0.716 mg/l (Ceriodaphnia dubia semi-static) | |
| Triphenyl phosphite 101-02-0 | | | EC50(48h) 0.94 mg/l (Cladocère) | |

Chronic aquatic toxicity - Product Information

No experimental data available

Chronic aquatic toxicity - Component Information

| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates | Toxicity to fish | Toxicity to microorganisms |
|--------------------------------------------------|-------------------|---------------------------------------------------------------|------------------|----------------------------|
| Nonylphenol, branched, ethoxylated 68412-54-4 | | NOEC (21d) 0.1 mg/l (daphnia magna semi-static - OECD 211) | | |

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

| Chemical Name | log Pow |
|--------------------------------------------------|---------|
| Nonylphenol, branched, ethoxylated 68412-54-4 | 5.39 |
| Triphenyl phosphite 101-02-0 | 6.62 |

Mobility**Soil** No information available**Other adverse effects**



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

13. DISPOSAL CONSIDERATIONS**Waste treatment**

| | |
|-------------------------------|--------------------------------------------------|
| Waste Disposal Methods | Dispose of in accordance with local regulations. |
|-------------------------------|--------------------------------------------------|

| | |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contaminated packaging | Empty containers may contain flammable or explosive vapors. Do not burn, or use a cutting torch on, the empty drum. Empty containers should be taken to an approved waste handling site for recycling or disposal. |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. TRANSPORT INFORMATION

| | |
|-------------------|---------------|
| <u>DOT</u> | Not regulated |
|-------------------|---------------|

| | |
|-------------------|---------------|
| <u>TDG</u> | Not regulated |
|-------------------|---------------|

| | |
|-------------------|---------------|
| <u>MEX</u> | Not regulated |
|-------------------|---------------|

| | |
|-------------------------|---------------|
| <u>ICAO/IATA</u> | Not regulated |
|-------------------------|---------------|

| | |
|------------------------|---------------|
| <u>IMDG/IMO</u> | Not regulated |
|------------------------|---------------|

| | |
|-----------------------|---------------|
| <u>ADR/RID</u> | Not regulated |
|-----------------------|---------------|

| | |
|-------------------|---------------|
| <u>ADN</u> | Not regulated |
|-------------------|---------------|

15. REGULATORY INFORMATION

| | |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <u>International Inventories</u> | All the substances contained in this product are listed or exempted from listing in the following inventories: U.S.A. (TSCA) |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|

U.S. Federal Regulations**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



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| Acute Health Hazard | Yes |
| 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 contains the following HAPs:

| Chemical Name | CAS-No | Weight % | HAPS data | VOC Chemicals | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|---------------|-------------|----------|-----------|---------------|-------------------------|-------------------------|
| Alkylphenol | 121158-58-5 | < 0.4 | | Group V | | |

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

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

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Revision Note: *** Indicates updated section

Abbreviations, acronyms



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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