

TP-35

SECTION 1. IDENTIFICATION

| | |
|--------------------------------------|---|
| Product Identifier | TP-35 |
| Other Means of Identification | Drying Agent |
| Recommended Use | Used for removal of water and water spots in tunnel car wash applications. |
| Restrictions on Use | None known. |
| Manufacturer / Supplier | Transchem Inc., 1225 Franklin Blvd, Cambridge, ON, N1R 7E5, 1-800-265-9100, www.transchem.com |
| Emergency Phone No. | INFOTRAC (U.S.), 1-800-535-5053, 24 Hours CANUTEC (Canada), 613-996-6666, 24 Hours |
| SDS No. | Ver. 2 (September 1, 2017) |
| Date of Preparation | September 14, 2015 |

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) - Category 4; Skin corrosion/irritation - Category 2; Serious eye damage/eye irritation - Category 2A; Aspiration hazard - Category 1

GHS Label Elements



Signal Word:

Danger

Hazard Statement(s):

| | |
|------|---|
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |

Prevention:

| | |
|------|---|
| P264 | Wash hands and skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P280 | Wear protective gloves. |
| P280 | Wear eye protection/face protection. |

Response:

| | |
|--------------------|--|
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTRE/doctor. |
| P330 | Rinse mouth. |
| P331 | Do NOT induce vomiting. |
| P302 + P352 | IF ON SKIN: Wash with plenty of water. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |

Storage:

| | |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

Disposal:

| | |
|------|---|
| P501 | Dispose of contents/container in accordance with local, regional, national and international regulations. |
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Other Hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | % | Other Identifiers |
|--|------------|-------|---|
| Distillates (Petroleum), Hydrotreated Middle | 64742-46-7 | 30-50 | Mineral Seal Oil |
| Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides | 61789-77-3 | 15-30 | Di-Alkyl Quaternary Ammonium Chloride |
| Amines, C14-18 and C16-18-unsatd. alkyl, ethoxylated | 68155-39-5 | 10-15 | Ethoxylated Fatty Acid Amine |
| 2-Butoxyethanol | 111-76-2 | 5-10 | Ethylene glycol monobutyl ether, Butyl Cellosolve |

Notes

The specific chemical identity and/or exact percentage of composition (concentration) has been withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. Get medical advice/attention if you feel unwell or are concerned.

Skin Contact

Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely. If skin irritation occurs get medical advice/attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Immediately call a Poison Centre or doctor.

Ingestion

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Rinse mouth with water. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Immediately call a Poison Centre or doctor.

Most Important Symptoms and Effects, Acute and Delayed

If on skin: may cause moderate to severe irritation. Repeated or prolonged exposure can irritate the skin. If in eyes: may cause moderate to severe irritation. Symptoms include sore, red eyes, and tearing.

Immediate Medical Attention and Special Treatment

Target Organs

Eyes, skin.

Special Instructions

Rinse affected area (skin, eyes) thoroughly with water.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Chemical

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Treat as combustible fluid. Do not direct solid stream of water into burning liquid. Contact with water causes violent frothing and spattering.

Very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides; products of incomplete combustion.

Special Protective Equipment and Precautions for Fire-fighters

Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills.

See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up.

Small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Do NOT use combustible materials such as sawdust. Place used absorbent into suitable, covered, labelled containers for disposal.

Large spills or leaks: dike spilled product to prevent runoff.

Contact emergency services and manufacturer/supplier for advice. Review Section 13 (Disposal Considerations) of this safety data sheet.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not swallow. Do NOT eat, drink or store food in work areas. Wear personal protective equipment to avoid direct contact with this chemical. See Section 13 (Disposal Considerations) of this safety data sheet.

Conditions for Safe Storage

Store in an area that is: clean, dry, separate from incompatible materials (see Section 10: Stability and Reactivity).

Store in closed container. Keep out of reach of children. Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Chemical Name | ACGIH TLV® | | OSHA PEL | | AIHA WEEL | |
|--|---------------------|----------------------|---------------------|---------|-----------|-----|
| | TWA | STEL | TWA | Ceiling | 8-hr TWA | TWA |
| 2-Butoxyethanol | | 20 ppm C Skin | 50 ppm Skin | | | |
| Distillates (Petroleum), Hydrotreated Middle | 5 mg/m ³ | 10 mg/m ³ | 5 mg/m ³ | | | |

Appropriate Engineering Controls

General ventilation is usually adequate. Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash in work area, if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Not normally required if product is used as directed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Basic Physical and Chemical Properties

| | |
|--|---|
| Appearance | Pink liquid. |
| Odour | Mild |
| Odour Threshold | Not available |
| pH | 6.5 - 9.5 |
| Melting Point/Freezing Point | Not available (melting); Not available (freezing) |
| Initial Boiling Point/Range | Not available |
| Flash Point | > 199.9 °F (93.3 °C) |
| Evaporation Rate | Not available |
| Flammability (solid, gas) | Not available |
| Upper/Lower Flammability or Explosive Limit | Not applicable (upper); Not applicable (lower) |
| Vapour Pressure | Not available |
| Vapour Density (air = 1) | Not applicable |
| Relative Density (water = 1) | 0.87 |
| Solubility | Soluble in water |
| Partition Coefficient, n-Octanol/Water (Log Kow) | Not available |
| Auto-ignition Temperature | Not available |
| Decomposition Temperature | Not available |
| Viscosity | Not available (kinematic) |
| Other Information | |
| Physical State | Liquid |

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Incompatible materials.

Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid), strong reducing agents (e.g. hydrides).

Hazardous Decomposition Products

None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity

| Chemical Name | LC50 | LD50 (oral) | LD50 (dermal) |
|--|---|----------------------|--------------------|
| 2-Butoxyethanol | 450 ppm (female rat) (4-hour exposure) | 400-917 mg/kg (rat) | 220 mg/kg (rabbit) |
| Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides | | 200-2000 mg/kg (rat) | |

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|--|-----------------------------------|---------------------|-----------------------|
| Distillates (Petroleum), Hydrotreated Middle | > 10 mg/L (rat) (4-hour exposure) | > 5,000 mg/kg (rat) | > 2000 mg/kg (rabbit) |
|--|-----------------------------------|---------------------|-----------------------|

Skin Corrosion/Irritation

Human experience shows moderate or severe irritation.

Serious Eye Damage/Irritation

Human experience shows serious eye irritation. Symptoms include sore, red eyes, and tearing.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May cause nose and throat irritation, lung irritation.

Ingestion

May cause irritation of the mouth, throat and stomach. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

Aspiration Hazard

May cause lung damage if aspirated based on physical properties (e.g. kinematic viscosity) and chemical family (hydrocarbon).

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Symptoms may include dry, red, cracked skin (dermatitis).

Respiratory and/or Skin Sensitization

No information was located.

Carcinogenicity

| Chemical Name | IARC | ACGIH® | NTP | OSHA |
|-----------------|---------|--------|-----|------|
| 2-Butoxyethanol | Group 3 | A3 | | |

Reproductive Toxicity

Development of Offspring

No indication from ingredients.

Sexual Function and Fertility

No indication from ingredients.

Effects on or via Lactation

No indication from ingredients.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

All components of this product are biodegradable by Regulation (EC) No 648/2004.

Toxicity

Acute Aquatic Toxicity

| Chemical Name | LC50 Fish | EC50 Crustacea | ErC50 Aquatic Plants | ErC50 Algae |
|--|--|---|----------------------|-------------|
| 2-Butoxyethanol | 1490-2950 mg/L (Lepomis macrochirus (bluegill); 96-hour) | 1550 mg/L (Daphnia magna (water flea); 48-hour) | | |
| Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides | 0.195 mg/L (96-hour) | 0.3 mg/L (Daphnia magna (water flea); 48-hour) | | |

Chronic Aquatic Toxicity

| Chemical Name | NOEC Fish | EC50 Fish | NOEC Crustacea | EC50 Crustacea |
|---------------|-----------|-----------|----------------|----------------|
| | | | | |

| | | | | |
|---|----------------------------------|--|--|--|
| 2-Butoxyethanol | > 100 mg/L (21-day; semi-static) | | > 100 mg/L (Daphnia magna (water flea); 21-day; semi-static) | |
| Quaternary ammonium compounds, dicoco alkyl dimethyl, chlorides | | | 0.15 mg/L (Daphnia magna (water flea); 21-day) | |

Persistence and Degradability

(Quaternary ammonium compounds, dicoco alkyl dimethyl, chlorides) Biodegradable as per OECD 301E tests for ready biodegradability. Degrades rapidly based on quantitative tests.

(2-Butoxyethanol) Biodegradable as per OECD 301E tests for ready biodegradability. Degrades rapidly based on quantitative tests.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Review federal, state/provincial, and local government requirements prior to disposal.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG Regulations. Not regulated under US DOT Regulations.

Special Precautions for User Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

Additional USA Regulatory Lists

SARA Title III - Section 313: 2-butoxyethanol (CAS: 111-76-2).

New Jersey Right To Know: 2-butoxyethanol (CAS: 111-76-2).

California Proposition 65: No listed substances are known to be present.

SECTION 16. OTHER INFORMATION

NFPA Rating

Health - 1

Flammability - 1

Instability - 0

SDS Prepared By

Technical Group

Date of Preparation

September 14, 2015

Revision Indicators

The following SDS content was changed on September 01, 2017:
 SECTION 2. HAZARDS IDENTIFICATION; GHS Classification; GHS Label Elements.
 SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS; Ingredient Information.
 SECTION 4. FIRST-AID MEASURES; Inhalation; Skin Contact; Eye Contact; Ingestion.
 SECTION 7. HANDLING AND STORAGE; Precautions for Safe Handling; Conditions for Safe Storage.
 SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION; Control Parameters.
 SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES; Relative Density.
 SECTION 11. TOXICOLOGICAL INFORMATION; LC50/LD50 values; Skin Corrosion/Irritation; Serious Eye Damage/Irritation; Inhalation; Ingestion; Aspiration Hazard; STOT (Specific Target Organ Toxicity) - Repeated Exposure; Carcinogenicity.
 SECTION 12. ECOLOGICAL INFORMATION; Acute Aquatic Toxicity; Chronic Aquatic Toxicity; Persistence and Degradability.

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