## MATERIAL SAFETY DATA SHEET



## **TWIST**

HMIS NFPA			NFPA	Personal protective equipment				
Health		2	2					
Fire Hazard		2	2					
Reactivity		0	0					

Version Number: 3 Preparation date: 2005-10-31

## 1. PRODUCT AND COMPANY IDENTIFICATION

 Product name:
 TWIST

 MSDS #:
 04481 HX

**Product code:** 04481010, 04481050, 04481100, 04481700

Recommended use: MULTI-PURPOSE CLEANER.

Manufacturer, importer, supplier:

JohnsonDiversey, Inc.

3630 E. Kemper Rd.
Cincinnati, OH 45241
Phone: 1-800-438-2647

Canadian Headquarters
JohnsonDiversey - Canada, Inc.
2401 Bristol Circle
Oakville, Ontario L6H 6P1
Phone: 1-800-668-3131

Emergency telephone number: 1-800-851-7145 (Prosar); 1-651-917-6133 (Int'l Prosar); 01-800-710-3400 (México)

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING. CAUSES EYE AND SKIN IRRITATION. COMBUSTIBLE LIQUID AND VAPOR. HARMFUL OR FATAL IF SWALLOWED. MAY CAUSE

ALLERGIC SKIN REACTION .

Principle routes of exposure:Eyes. Skin contact. Inhalation.Eye contact:Severe eye irritation.Skin contact:Severe skin irritation.

**Inhalation:** May be irritating to nose, throat, and respiratory tract. **Ingestion:** May be irritating to mouth, throat and stomach.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

## **HAZARDOUS COMPONENTS**

Ingredient	CAS#	Weight %	LD50 Oral	LD50 Dermal	LC50 Inhalation
Terpinolene	586-62-9	10 - 20%	4390 mg/kg (rat)	Not available	Not available
Dioctyl sodium sulfosuccinate	577-11-7	1 - 5%	1900 mg/kg (rat)	Not available	Not available
Ethyl alcohol	64-17-5	0.1 - 1.5%	7060 mg/kg (rat)	Not available	20 g/kg/10H (rat)

## 4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical

attention.

Skin contact: Flush immediately with plenty of water for at least 15 minutes. Get medical attention.

Inhalation: If breathing is affected, remove to fresh air. Get medical attention. Ingestion: Immediately drink one cupful of water or milk. Get medical attention.

**Aggravated Medical Conditions:** Persons with pre-existing skin disorders may be more susceptable to irritating effects.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, water spray, foam, carbon dioxide.

Specific hazards: Thermal decomposition can lead to release of irritating gases and vapors.

Unusual hazards: None known

**Specific methods:**Autoignition temperature:
No special methods required.
No information available.

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Extinguishing media which must not be used for safety reasons: None.

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## **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions: Environmental precautions and clean-up methods: Ensure adequate ventilation. Remove all sources of ignition. Use personal protective equipment. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

# 7. HANDLING AND STORAGE

## Handling:

Avoid contact with skin, eyes and clothing. Do not taste or swallow. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. FOR COMMERCIAL AND INDUSTRIAL USE ONLY. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

Storage:

Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## Engineering measures to reduce exposure:

Use only in well-ventilated areas . In case of insufficient ventilation wear suitable respiratory equipment..

**Personal Protective Equipment** 

**Eye protection:** Safety glasses with side-shields.

Hand protection: Chemical resistant gloves Includes neoprene gloves

**Skin and body protection:** If major exposure is possible, wear suitable protective clothing and footwear.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. Use only in well-ventilated areas. If

aerosols, mists, or vapors are not adequately controlled by ventilation, use appropriate respiratory

protection to avoid over-exposure

Hygiene measures: Avoid contact with skin, eyes and c

Avoid contact with skin, eyes and clothing . Remove and wash contaminated clothing and footwear before

re-use. Wash hands before breaks and immediately after handling the product .

Ingredient	CAS#	ACGIH	OSHA	Mexico
Ethyl alcohol	64-17-5	1000 ppm (TWA)	1900 mg/m <sup>3</sup> 1000 ppm	1900 mg/m³ (TWA)

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Appearance: Liquid

Color: Amber Boiling point/range: >200 (°F) >100 (°C)
Odor: Lemon Melting point/range: Not determined

 Specific gravity:
 1.00 g/mL
 pH:
 8.5

 Dilution pH:
 8.23 (1%)
 Density:
 8.345

Bulk density:No information availableDecomposition temperature:Not determinedVapor density:No information availableAutoignition temperature:No information available

Evaporation rate:No information availableSolubility:Solubility:SolubleSolubility in otherNo information availableVOC:15.5%

solvents:

Viscosity: No information available Flash point: 144 (°F) 97.5 (°C)

Partition coefficient (n-octanol/water): No information available

# 10. STABILITY AND REACTIVITY

**Stability:** The product is stable

**Polymerization:** Hazardous polymerisation does not occur.

Hazardous decomposition products:

Materials to avoid:

Oxides of carbon

Strong oxidising agents.

Conditions to avoid: Stable at normal conditions. Keep away from open flames, hot surfaces and sources of ignition.

# 11. TOXICOLOGICAL INFORMATION

Acute toxicity LD50 estimated to be 3000 - 4000 mg/kg

Component Information: See Section 3

**Chronic toxicity:** Repeated skin exposure can cause sensitization .

Specific effects

Carcinogenic effects: No information available.

Mutagenic effects:None knownReproductive toxicity:None knownTarget organ effects:None known

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#### **HAZARDOUS COMPONENTS**

Ingredient	CAS#	NTP	IARC	OSHA
Ethyl alcohol	64-17-5	Listed.		

# 12. ECOLOGICAL INFORMATION

Environmental Information: When used for its intended purpose this product should not cause adverse effects in the environment

# 13. DISPOSAL CONSIDERATIONS

#### Waste from residues / unused products:

Dispose of according to all federal, state and local applicable regulations

## 14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

# 15. REGULATORY INFORMATION

#### International Inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

#### **U.S. Regulations**

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

## **STATE RIGHT TO KNOW**

Ingredient	CAS#	MARTK:	NJRTK:	PARTK:	RIRTK:	ILRTK:	CTRTK:
Water	7732-18-5	-	-	-	-	-	-
Diethanolamine dodecylbenzene sulfonate	26545-53-9	-	-	-	-	-	-
Dioctyl sodium sulfosuccinate	577-11-7	-	-	-	-	-	-
Ethyl alcohol	64-17-5	Listed	Listed	Listed	Listed	Listed	Listed
Alcohol ethoxylate	68002-97-1	-	-	-	-	-	-
Terpinolene	586-62-9	-	-	-	-	-	-

## **CERCLA / SARA**

Ingredient	CAS#	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Ethyl alcohol	64-17-5	0.1 - 1.5%	100		

## CAA HAP/CAA ODS/CWA Priority Pollutants: None

### SARA 311/312 Hazard Categories

Immediate: Y
Delayed: Y
Fire: Y
Reactivity: N
Sudden Release of Pressure: N

#### Canada

WHMIS hazard class: B3 Combustible liquid, D2B Toxic materials.



# **16. OTHER INFORMATION**

Reason for revision:
Prepared by:
Additional advice:
Not applicable
NAPRAC
None

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