SAFETY DATA SHEET



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Techspray PWR-4 Solvent

Section 1. Identification

GHS product identifier	: Techspray PWR-4 Solvent
Product code	: 3410-G, 3410-5G, 3410-54G
Other means of	: Vapor Degreasers
identification	Industrial/Professional use
Product type	: Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

See Technical Data Sheets for application uses

Uses advised against Not applicable.

Supplier's details	Techspray 8125 Cobb Center Drive Kennesaw, GA 30152 Tel: 678-819-1408 Toll free: 1-800-858-4043 Fax: 1 806-372-8750
Emergency telephone number (with hours of operation)	 Chemtrec - 1-800-424-9300 CANUTEC (Canadian Transportation): (613) 996-6666 Emergency phone: (800) 858-4043 24/7

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 7.5%
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
Response	: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. 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 or attention.

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Section 2. Hazards identification

Storage	: Not applicable.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise	: None known.

Hazards not otherwise classified

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Vapor Degreasers Industrial/Professional use

Ingredient name	%	CAS number
trans-dichloroethylene	≥90	156-60-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed		
Potential acute heal	Ith effects	
Eye contact	: Causes serious eye irritation.	
Inhalation	: Serious effects may be delayed following exposure.	
Skin contact	: Causes skin irritation.	
Ingestion	: Harmful if swallowed.	
Over-exposure signs/symptoms		

Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: Adverse symptoms may include the following: Ingestion Seek medical attention.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. Exposure to extreme heat can give rise to thermal decomposition. Product does not have a flashpoint and is non-flammable. Material displays no closed-cup flash point but may form explosive vapor air mixture. Avoid vapor contact with ignition source.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, halogenated compounds, carbonyl halides, hydrogen chloride During combustion and hydrogen fluoride during combustion.
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Section 6. Accidental release measures

Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for c	ontainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
trans-dichloroethylene	ACGIH TLV (United States, 3/2020). TWA: 200 ppm 8 hours. TWA: 793 mg/m ³ 8 hours.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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Section 8. Exposure controls/personal protection

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Individual protection	asures	
Hygiene measures	eating, smoking an Appropriate technic Wash contaminate	rms and face thoroughly after handling chemical products, before d using the lavatory and at the end of the working period. ues should be used to remove potentially contaminated clothing. d clothing before reusing. Ensure that eyewash stations and safety o the workstation location.
Eye/face protection	assessment indicat gases or dusts. If o	nplying with an approved standard should be used when a risk es this is necessary to avoid exposure to liquid splashes, mists, contact is possible, the following protection should be worn, unless licates a higher degree of protection: chemical splash goggles.
Skin protection		
Hand protection	worn at all times where the set of the set o	impervious gloves complying with an approved standard should be nen handling chemical products if a risk assessment indicates this is ering the parameters specified by the glove manufacturer, check gloves are still retaining their protective properties. It should be to breakthrough for any glove material may be different for different s. In the case of mixtures, consisting of several substances, the ne gloves cannot be accurately estimated.
Body protection		equipment for the body should be selected based on the task being risks involved and should be approved by a specialist before ct.
Other skin protecti		ar and any additional skin protection measures should be selected being performed and the risks involved and should be approved by a ndling this product.
Respiratory protecti	appropriate standa	d and potential for exposure, select a respirator that meets the d or certification. Respirators must be used according to a program to ensure proper fitting, training, and other important

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Appearance		
Physical state	:	Liquid.
Color	1	Clear. Colorless.
Odor	1	Solvent
Odor threshold	:	Not available.
рН	:	Not available.
Melting point/freezing point	1	Not available.
Boiling point, initial boiling	:	48°C (118.4°F)
point, and boiling range		
Flash point	1	Not applicable.
Flammability	1	Not available.
Lower and upper explosion	1	Not available.
limit/flammability limit		
Vapor pressure	1	Not available.
Relative vapor density	4	Not available.
Relative density	4	1.2173
Density	1	1.2713 g/cm³
Solubility in water	1	Not available.
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	:	460°C (860°F)

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Section 9. Physical and chemical properties and safety characteristics

Decomposition temperature		Not available.
Viscosity	1	Not available.
Particle characteristics		
Median particle size	1	Not applicable.

Section 10. Stability and reactivity				
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.			
Chemical stability	: The product is stable.			
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.			
Conditions to avoid	: No specific data.			
Incompatible materials	: No specific data.			
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.			

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
trans-dichloroethylene	LC50 Inhalation Gas. LD50 Dermal LD50 Oral	Rabbit	24100 ppm >5 g/kg 1235 mg/kg	4 hours - -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
trans-dichloroethylene	Eyes - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit	-	10 mg 24 hours 500 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Section 11. Toxicological information

Aspiration hazard

Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	÷	Causes serious eye irritation.
Inhalation	÷	Serious effects may be delayed following exposure.
Skin contact	÷	Causes skin irritation.
Ingestion	:	Harmful if swallowed.
Symptoms related to the physical	sic	al, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	Adverse symptoms may include the following: Ingestion Seek medical attention.
Delayed and immediate offer		and also chronic offects from short and long form

Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

-	Oral (mg/ kg)	Dermal (mg/kg)	(gases)	(vapors)	Inhalation (dusts and mists) (mg/ I)
trans-dichloroethylene	1235	N/A	24100	N/A	N/A

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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
trans-dichloroethylene	Acute LC50 220000 μg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
trans-dichloroethylene	2.09	-	Low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.
	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #		Reference number
1,2-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-	156-60-5	Listed	U079

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-				
Transport hazard class(es)					
Packing group		-	-	-	-

Section 14. Transport information

Environmental	No.		No.	No.	No.	No.
hazards						
Additional inform	nation					
DOT Classifica	tion	of th subs ship Pacl	e product is due sole stances' that are subj ments of packages g	ly to the presence of ect to reportable qua reater than, or equal	104.82 gal / 396.79 L] one or more US DOT ntity requirements an to, the product report e quantity are not reg	-listed 'Hazardous d only applies to able quantity.
Special precautio	ons for user	uprię	-	re that persons trans	ansport in closed con porting the product kr	
Transport in bulk to IMO instrumer		: Not	available.			

Section 15. Regulatory information

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U.S. Federal regulations		SCA 5(a)2 final sign ,2,2-trifluoroethoxy)·	nificant new use rules: Ethane, 1,1,2,2-tetrafluoro-1- -
	Т	SCA 8(a) CDR Exer	npt/Partial exemption: Not determined
	Т	SCA 12(b) one-time	e export: Ethane, 1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy)-
	CI	ean Water Act (CW	VA) 307: trans-dichloroethylene
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: No	ot listed	
Clean Air Act Section 602 Class I Substances	: No	ot listed	
Clean Air Act Section 602 Class II Substances	: No	ot listed	
DEA List I Chemicals (Precursor Chemicals)	: No	ot listed	
DEA List II Chemicals (Essential Chemicals)	: No	ot listed	
SARA 302/304			
Composition/information c	on ing	<u>redients</u>	
No products were found.			
SARA 304 RQ	: No	ot applicable.	
<u>SARA 311/312</u>			
Classification	SK	UTE TOXICITY (ora N IRRITATION - Ca E IRRITATION - Ca	ategory 2
Composition/information c	on ing	<u>redients</u>	
Name		%	Classification
trans-dichloroethylene		≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
Ethane, 1,1,2,2-tetrafluoro-1	-	≤10	FLAMMABLE LIQUIDS - Category 2

State regulations

(2,2,2-trifluoroethoxy)-

Massachusetts

: The following components are listed: DICHLOROETHYLENE-TRANS

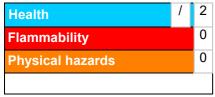
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New York	: The following components are listed: Ethene, trans-1,2-dichloro-; Dichloroethylene
New Jersey	: None of the components are listed.
Pennsylvania	The following components are listed: ETHENE, 1,2-DICHLORO-, (E)-
California Prop. 65	
This product does not re	equire a Safe Harbor warning under California Prop. 65.
nternational regulations	
Chemical Weapon Convent	tion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
	Persistent Organic Pollutants
Not listed.	reisistent Organic ronutants
	Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol on	POPs and Heavy Metals
Not listed.	
nventory list	
Australia	: Not determined.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
Japan	: Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
	: Not determined.
Turkey	· Not dotominou.
Turkey United States	: All components are active or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Section 16. Other information



Procedure used to derive the classification

Classification	Justification
SKIN IRRITATION - Category 2	Calculation method Calculation method Calculation method

<u>History</u>	
Date of printing	: 9/15/2023
Date of issue/Date of revision	: 9/15/2023
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Version	: 3
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations
References	: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.