SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name	**Formula CO 40 Sachet**
REACH Substance Name	Mixture
REACH Registration Number	Mixture
SDS Date	April 2023

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use:	Security Screening Product
Uses Advised Against:	All other uses

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer:
Trace Eye-D
573 Interstate Blvd.
Sarasota, FL 34240 USA
941.926.5045

Email: TRACEYED.COM

1.4 Emergency Telephone Number:

1 (800) 424-9300 for US and Canada (CHEMTREC)
+1(703) 527-3887 for International Calls (call CHEMTREC collect)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

This product consists of a sachet containing 0.15 mL of a sulfuric acid solution completely absorbed on a polypropylene/cellulose wipe. There is no free liquid when the pouch is opened for use.

CLP/GHS Classification (1272/2008): Skin Corrosion Category 1A (H314)
Eye Damage Category 1 (H318)
Aquatic Chronic Toxicity Category 3 (H412)

2.2 Label Elements:

DANGER

Hazard statement(s)
H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic organisms with long lasting effects.

Precautionary statement(s)
P260 Do not breathe vapors or mists.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310 Immediately call a POISON CENTER or doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 Wash contaminated clothing before reuse.
P310 Immediately call a POISON CENTER or doctor.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a POISON CENTER or doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor. P405
Store locked up.
P501 Dispose of contents in accordance with local, state and national regulations.

2.3 Other Hazards: None known.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

This product consists of a sachet containing 0.15 mL of Part A (sulfuric acid solution) as a liquid and 0.15 mL of Part B solution completely absorbed on a polypropylene/cellulose wipe. The following information refers to the solutions.

3.2 Mixture

Chemical Name	**CAS Number / EINECS Number / REACH Reg. Number**	**% (w/w)**	**CLP/GHS Classification (1272/2008)**
Sulfuric Acid	7664-93-9 231-639-5	>80%	Skin Corrosion Category 1A (H314) Eye Damage Category 1 (H318)
Isopropanol	67-63-0 200-661-7	<10%	Flammable Liquid Category 2 (H225) Eye Irritation Category 2 (H319) Specific Target Organ Toxicity, Single Exposure Category 3 (H336)
Dimethyl sulfoxide	67-68-5 200-664-3	<10%	Not classified as hazardous

Diphenylamine	122-39-4 204-539-4	<1%	Acute Toxicity Category 3 (H301, H311, H331) Eye Irritation Category 2A (H319) Specific Target Organ Toxicity, Repeated Exposure Category 2 (H373) Aquatic Acute Toxicity Category 1 (H400) Aquatic Chronic Toxicity Category 1 (H410)

The specific chemical identity and/or exact percent is a trade secret. See Section 16 for full text of GHS hazard phrases.

SECTION 4. FIRST-AID MEASURES

4.1 Description of First Aid Measures

First Aid

Eye contact: Immediately flush eyes with water for at least 20 minutes while lifting the upper and lower lids. Get immediate medical attention.

Skin contact: Flush skin with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if irritation develops or persists. Launder clothing before reuse

Inhalation: First aid should not be needed due to very small amount of chemicals present in each sachet. If irritation occurs, remove person to fresh air. If irritation persists, get medical attention.

Ingestion: Ingestion is unlikely due to product form. In the case of accidental ingestion, do not induce vomiting unless directed to do so by medical personnel. Rinse mouth with water. Never give anything by mouth to a person who is unconscious or convulsing. Get immediate medical attention.

See Section 11 for more detailed information on health effects.

4.2 Most important symptoms and effects, both acute and delayed: Part A liquid is corrosive and will cause burns to exposed tissue. Part B liquid is an eye irritant. Direct contact with the wipe during use will cause severe irritation or burns to eyes and skin.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is recommended in the case of eye contact.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media: Use extinguishing media that is suitable for the fire situation. Sachets are not a fire hazard.

5.2 Special Hazards Arising from the Substance or Mixture
Fire and Explosion Hazards: Sachets are not a fire hazard.
Combustion Products: Carbon and sulfur oxides.

5.3 Advice for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:
If sachets are damaged, wear suitable protective clothing; chemical safety goggles, impervious gloves and protective clothing as needed to prevent skin contact.

6.2 Environmental Precautions:
Prevent entry in storm sewers and waterways. Report spill as required by local and national regulations.

6.3 Methods and Material for Containment and Cleaning Up:
If sachets are damaged, carefully collect. Absorb liquid with an inert material or acid spill kit. Place in a suitable container for disposal. Clean spill area thoroughly.

6.4 Reference to Other Sections:
Refer to Section 8 for personal protective equipment, and Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:
Prevent eye and skin contact. Wear suitable gloves when using product. Wash thoroughly after handling. Remove contaminated clothing and launder before re-use.

7.2 Conditions for Safe Storage, Including any Incompatibilities:
Store as indicated on product packaging in a secure location. Protect containers from physical damage. Store in a cool area.

7.3 Specific end use(s):
Industrial uses: None
Professional uses: Security screening product

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	EU IOEL	Member State OEL	US OEL
Sulfuric Acid	0.05 mg/m3 (thoracic) TWA	0.1 mg/m3 TWA, 0.2 mg/m3 (inhalable) Austria, Sweden 1 mg/m3 TWA, 3 mg/m3 STEL Belgium 1 mg/m3 TWA, 2 mg/m3 Denmark 0.1 mg/m3 (thoracic) TWA/STEL Germany 0.05 mg/m3 TWA Ireland, Italy 0.05 mg/m3 TWA Spain, Netherlands 1 mg/m3 TWA UK	1 mg/m3 TWA OSHA PEL 0.2 mg/m3 (thoracic) TWA ACGIH TLV
Isopropanol	None Established	200 ppm TWA, 400 ppm STEL ACGIH TLV Belgium, Denmark, Germany, Ireland, Spain 400 ppm TWA, 500 ppm STEL UK 200 ppm TWA, 800 ppm STEL Austria 150 ppm TWA, 250 ppm STEL Sweden	400 ppm TWA OSHA PEL 200 ppm TWA, 400 ppm STEL ACGIH TLV
Dimethylsulfoxide	None Established	50 ppm TWA, 100 ppm STEL Denmark, Germany 50 ppm TWA Austria 50 ppm TWA, 150 ppm STEL Sweden	None Established

Refer to local or national regulations for exposure limits not listed above.

8.2 Exposure Controls:

Recommended Monitoring Procedures: Contact a qualified industrial hygienist for monitoring if needed.

Appropriate Engineering Controls: No special controls required for normal use.

Personal Protective Measurers

Eye/Face Protection: Chemical safety goggles recommended if needed to prevent eye contact during use and spill clean-up.

Skin Protection: Impervious clothing is recommended if needed to avoid skin contact during bulk processing and spill clean-up.

Hands: Impervious gloves such as nitrile.

Respiratory Protection: None required for normal use.

Other protection: Suitable eye and skin washing facilities should be available in the work area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties – this product consists of a plastic laminate sachet containing Part A liquid and Part B saturated on a polypropylene/cellulose wipe. The information below refers to the liquids.

Appearance: Clear, light pink liquid	**Odor:** Pungent
Odor Threshold: Not established	**pH:** <2
Melting/Freezing Point: Not established	**Boiling Point:** Not established
Flash Point: Not established	**Evaporation Rate:** Not established
Lower Flammability Limit: Not applicable **Upper Flammability Limit:** Not applicable	**Vapor Pressure:** Not established
Flammability (gas, solid): Not applicable	
Vapor Density(Air=1): Not established	**Relative Density:** 1.48
Solubility: Soluble in water	**Octanol/Water Partition Coefficient:** Not established
Autoignition Temperature: Not established	**Decomposition Temperature:** Not established
Viscosity: Not established	**Explosive Properties:** None
Oxidizing Properties: None	**Specific Gravity (H_2O= 1):** 1.48

9.2 Other Information: None known

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: Not reactive under normal conditions.

10.2 Chemical Stability: Stable.

10.3 Possibility of Hazardous Reactions: Reaction with strong bases or oxidizers will generate heat.

10.4 Conditions to Avoid: Avoid excessive heat.

10.5 Incompatible Materials: Incompatible with strong oxidizing agents and bases.

10.6 Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, sulfur oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Eye Contact: Contact with Part A liquid or saturated wipe will cause severe irritation and chemical burns. May cause eye damage.

Skin contact: Contact with Part A liquid or saturated wipe will cause severe irritation and chemical burns.

Inhalation: No adverse effects are expected during normal use.

Ingestion: Swallowing is not expected due to product form. If swallowed, may cause burns to the mouth, throat and intestinal tract.

Chronic Effects: None known.

Acute Toxicity: Calculated ATE
Part A: Oral LD50 >2000 mg/kg, Dermal LD50 >2000 mg/kg Part B: Acute toxicity (oral) : Harmful if swallowed. Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation: are skin corrosives.

Eye damage/ irritation: eye damaging,

Respiratory Irritation: Components are not respiratory irritants

Respiratory Sensitization: Components are not respiratory sensitizers.

Skin Sensitization: Components are not skin sensitizers.

Germ Cell Mutagenicity: None of the components are germ cell mutagens.

Reproductive Toxicity: None of the components are reproductive toxins.

Carcinogenicity: Occupational exposure to acid mists, strong inorganic is classified as a group 1 carcinogen by IARC and a known human carcinogen by NTP. Exposure to acid mists during the use of this product will not occur. None of the other components are listed as carcinogens or suspected carcinogens by IARC, NTP, OSHA or EU CLP.

Specific Target Organ Toxicity:

Single Exposure: Components are not classified as category 1 or 2 target organ toxins.
Repeat Exposure: Components are not classified as category 1 or 2 target organ toxins.

Aspiration Toxicity: Components are not aspiration hazards.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity Component A:
Sulfuric Acid: LC50 Lepomis macrochirus 16-28 mg/L/96 h; EC50 daphnia magna 100 mg/L/48h; EC50 algae >100 mg/L/72 h
Isopropanol: LC50 Pimephales promelas 230 mg/L/96 h; EC50 daphnia magna 7,550-13,299 mg/L/48 h; ErC50 algae Scenedesmus sp. >1,000 mg / 72 h

Dimethyl sulfoxide: LC50 fish 25,000-43,000 mg/L/96 h; EC50 daphnia magna 24,600 mg/L/48h; EC50 algae 12,000 mg/L/72 h
Diphenylamine: EC50 daphnia magna 1.2 mg/L/48 h; EC50 algae 2.17 mh/L/72 h
Proprietary Mixture: LC50 fish >100 mg/L/96h; LC50 daphnia magna >1000 mg/L/48h;
Toxicity Component B: e: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
12.2 Persistence and degradability: Component A: Biodegradation does not apply to inorganic substances. Isopropanol and dimethylsulfoxide are readily biodegradable. Proprietary mixture is partially biodegradable. Component B:
12.3 Bioaccumulative Potential: Bioaccumulation is not expected based on a review of the components.
12.4 Mobility in Soil: No data available
12.5 Results of PBT and vPvB assessment: Components do not meet the criteria of PBT or vPvB.
12.6 Other Adverse Effects: No data available.

Toxicity Component B: e: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008. Ecology - air : Photodegradation in the air. Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Ecology - water : Toxic to crustacea. Harmful to fishes. Water pollutant (surface water). Inhibition of activated sludge. pH shift. Harmful to plankton. Methylene Blue (61-73-4) LC50 fish 1 18 mg/l (96 h, Mystus vittatus) EC50 Daphnia 1 2.26 mg/l (48 h, Daphnia magna) 12.2. Persistence and degradability Methylene Blue (61-73-4) Persistence and degradability Biodegradability in water: no data available. 12.3. Bioaccumulative potential Methylene Blue (61-73-4) Log Pow 5.85 (Estimated value) Bioaccumulative potential Not bioaccumulative

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14. TRANSPORT INFORMATION

	14.1 UN Number	**14.2 UN Proper Shipping Name**	**14.3 Hazard Class(s)**	**14.4 Packing Group**	**14.5 Environmental Hazards**
US DOT	UN2796	Sulfuric acid solution	8	II	No
Canadian TDG	UN2796	Sulfuric acid solution	8	II	No
EU ADR/RID	UN2796	Sulfuric acid solution	8	II	No
IMDG	UN2796	Sulfuric acid solution	8	II	No
IATA/ ICAO	UN2796	Sulfuric acid solution	8	II	No

This product consists of a sachet (packet) containing 0.15 mL of sulfuric acid solution and a wipe saturated with a non-transport hazardous liquid. These sachets can be shipped under the deminimus quantities exception if appropriately packaged and the aggregate quantity of hazardous material per package does not exceed 100 mL. The gross mass of each package must not exceed 29 kg.

14.6 Special Precautions for User: None

14.7 Transport in Bulk According to Annex II MARPOL 73/78 and the IBC Code: Not applicable – product is transported only in packaged form.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

This SDS was prepared in compliance with Regulation (EC) No. 1907/200 (REACH) and its amendments and Regulation (EC) No 1272/2008 (CLP), US OSHA Hazard Communication 29CFR1910.1200 and Canadian WHMIS.

CERCLA: Sulfuric acid has a reportable quantity of 1000 lbs. Many states have more stringent release reporting requirements. Report spills as required under federal, state and local regulations.

SARA Hazard Category (311/312): Refer to Section 2 for the OSHA Hazard Classification.

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313:
Sulfuric Acid >20%

INTERNATIONAL INVENTORIES
EPA TSCA Inventory: All components are listed**.**
CANADIAN CEPA: All components are listed.
AUSTRALIA: All components are listed.
JAPAN: All components are listed.
KOREA: All components are listed.
CHINA: All components are listed
PHILIPPINES: All components are listed.
NEW ZEALAND: All components are listed **TAIWAN**:
All components are listed

SECTION 16. OTHER INFORMATION

CLP/GHS Hazard Statements for Reference (See Section 3):
H225 Highly flammable liquid and vapor.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long-lasting effects.

SDS Revision History: Updated SDS- changes in all sections
Date of preparation: 3 April 2023
Date of last revision: NA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.