



TrackTek® 105 Racing Fuel

Version 1.1

Revision Date 2010-07-08

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : TrackTek® 105 Racing Fuel
 Material : 1021627, 1021629, 1033504, 1021631, 1021630, 1021628

Company : Chevron Phillips Chemical Company LP
 Specialty Chemicals
 10001 Six Pines Drive
 The Woodlands, TX 77380

Local : Chevron Phillips Chemicals (Shanghai) Corporation
 2299 West Yan an Road, Shanghai

MSDS Requests: 852-29784899
 Technical Information: 86-21-62362199
 Responsible Party: Product Safety Group
 Email:msds@cpchem.com

 ConocoPhillips China Inc.
 Shekou
 Shenzhen, 518067
 China

MSDS Requests: 852-29784899
 Technical Information: 86-755-26812393
 Responsible Party: Product Safety Group
 Email:msds@cpchem.com

Emergency telephone:

Health:

866.442.9628 (North America)
 1.832.813.4984 (International)

Transport:

North America: CHEMTREC 800.424.9300 or 703.527.3887
 ASIA: 800-CHEMICAL (2435 2255) CHINA: 0532.8388.9090
 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group
 E-mail address : MSDS@CPChem.com
 Website : www.CPChem.com

2. HAZARDS IDENTIFICATION

GHS-Classification

: Eye irritation, Category 2A

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Specific target organ toxicity - single exposure, Category 3
 Skin irritation, Category 2
 Reproductive toxicity, Category 2
 Aspiration hazard, Category 1
 Acute aquatic toxicity, Category 1
 Chronic aquatic toxicity, Category 1

GHS-Labeling

Symbol(s)



Signal word

: Danger

Hazard statements

: H304: May be fatal if swallowed and enters airways.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H335: May cause respiratory irritation.
 H336: May cause drowsiness or dizziness.
 H361: Suspected of damaging fertility or the unborn child.
 H373: May cause damage to organs (Nervous system, Auditory organs) through prolonged or repeated exposure if inhaled.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe dust/fume/gas/mist/vapor/spray.
 P264 Wash face, hands and any exposed skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves and eye/face protection.
Response:
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P311 Call a POISON CENTER or doctor/physician.
 P331 Do NOT induce vomiting.
 P337 + P313 If eye irritation persists: Get medical advice/attention.
 P362 Take off contaminated clothing and wash before reuse.
 P391 Collect spillage.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
Storage:
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
Disposal:

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P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Superpro Racing Fuel
Motor Fuel

Molecular formula : Mixture

Chemical Name	CAS-No. / EINECS-No.	Concentration[%]
2,2,4-Trimethylpentane (Isooctane)	540-84-1	30 - 60
Ethyl Tertiary Butyl Ether	637-92-3	10 - 30
p-Xylene	106-42-3	10 - 30
o-Xylene	95-47-6	10 - 30
m-xylene	108-38-3	10 - 30
Benzene, dimethyl-	1330-20-7	10 - 30
Toluene	108-88-3	5 - 10
Isobutane	75-28-5	1 - 5
Isopentane	78-78-4	1 - 5

4. FIRST AID MEASURES

- General advice : Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may only appear several hours later. Do not leave the victim unattended.
- Inhalation : Call a physician or poison control center immediately. Move to fresh air. If unconscious place in recovery position and seek medical advice.
- Skin contact : If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
- Eye contact : Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
- Ingestion : Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

5. FIRE-FIGHTING MEASURES

- Flash point : -37 °C (-35 °F)
- Autoignition temperature : No data available
- Suitable extinguishing media : Dry chemical. Carbon dioxide (CO₂). Alcohol-resistant foam.

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- Unsuitable extinguishing media : High volume water jet.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
- Fire and explosion protection : Do not spray on an open flame or any other incandescent material. Use only explosion-proof equipment. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
- Hazardous decomposition products : Hydrocarbons. Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : 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).

7. HANDLING AND STORAGE**Handling**

- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

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Advice on protection against fire and explosion : Do not spray on an open flame or any other incandescent material. Use only explosion-proof equipment. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers : Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Chevron Phillips Chemical Company LP**

Components	Basis	Value	Control parameters	Note
2,2,4-Trimethylpentane (Isooctane)	Manufacturer	TWA	300 ppm,	
Ethyl Tertiary Butyl Ether	Manufacturer	TWA	5 ppm,	

Personal protective equipment

Respiratory protection : In the case of vapor formation use a respirator with an approved filter.

Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form : Liquid

Color : Clear to amber

Odor : Mild

Safety data

Flash point : -37 °C (-35 °F)

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Lower explosion limit	: No data available
Upper explosion limit	: No data available
Oxidizing properties	: No
Autoignition temperature	: No data available
Molecular formula	: Mixture
Molecular Weight	: Not applicable
pH	: Not applicable
Pour point	: No data available
Boiling point/boiling range	: 32 - 171 °C (90 - 340 °F)
Vapor pressure	: 7,00 PSI at 38 °C (100 °F)
Water solubility	: Negligible
Partition coefficient: n-octanol/water	: No data available
Viscosity, kinematic	: No data available
Relative vapor density	: 3 (Air = 1.0)
Evaporation rate	: No data available
Percent volatile	: No data available

10. STABILITY AND REACTIVITY

Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Other data	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION**Acute oral toxicity**

2,2,4-Trimethylpentane (Isooctane)	: LD50: > 5.000 mg/kg Species: rat
Ethyl Tertiary Butyl Ether	: LD50: > 5.000 mg/kg Species: rat

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p-Xylene	: LD50: 4.029 mg/kg Species: rat
o-Xylene	: LD50: 3.580 mg/kg Species: rat
m-xylene	: LD50 Oral: 5.010 mg/kg Species: rat
Benzene, dimethyl-	: LD50: 3.523 - 8.600 mg/kg Species: rat
Toluene	: LD50: 5.500 - 7.530 mg/kg Species: rat
Isopentane	: LD50: > 2.000 mg/kg

Acute inhalation toxicity

2,2,4-Trimethylpentane (Isooctane)	: LC50: > 14,4 mg/l Exposure time: 4 HR Species: rat
Ethyl Tertiary Butyl Ether	: LC50: > 1450 ppm Exposure time: 4 HR Species: rat
p-Xylene	: LC50: 4740 ppm Exposure time: 4 HR Species: rat
o-Xylene	: LC50: 18,8 mg/l Exposure time: 4 HR Species: rat
m-xylene	: LC50: 5984 ppm Exposure time: 4 HR Species: rat
Benzene, dimethyl-	: LC50: 6350 ppm Exposure time: 4 HR Species: rat
Toluene	: LC50: 12,5 mg/l Exposure time: 4 HR Species: rat
Isobutane	: LC50: > 31 mg/l Exposure time: 4 HR Species: rat
Isopentane	: LC50: > 12,1 mg/l Exposure time: 4 HR Species: rat

Acute dermal toxicity

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2,2,4-Trimethylpentane
(Isooctane) : LD50: > 2.000 mg/kg
Species: rabbit

Ethyl Tertiary Butyl Ether : LD50: > 2.000 mg/kg
Species: rabbit

o-Xylene : LD50: > 20.000 mg/kg
Species: rabbit

m-xylene : LD50: 12.180 mg/kg
Species: rabbit

Benzene, dimethyl- : LD50: 3.200 mg/kg
Species: rabbit

Toluene : LD50: 12.400 mg/kg
Species: rabbit

Product

Skin irritation : May cause skin irritation in susceptible persons.

Product

Eye irritation : May cause irreversible eye damage.

Sensitization

Toluene : Did not cause sensitization on laboratory animals.

Repeated dose toxicity

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2,2,4-Trimethylpentane (Isooctane)	: Species: rat Application Route: oral gavage Dose: 0, 50, 100, 200, 500 mg/kg Exposure time: 21 day Number of exposures: daily
p-Xylene	: Species: rat Application Route: oral gavage Dose: 0, 100, 200, 800 mg/kg Exposure time: 13 wk Number of exposures: once daily Lowest observable effect level: 800 mg/kg
	: Species: rat Application Route: Inhalation Dose: 0, 450, 900, 1800 ppm Exposure time: 13 wk Number of exposures: 6 h/d, 6 d/wk Lowest observable effect level: 900 ppm
o-Xylene	: Species: rat Application Route: Inhalation Dose: 0, 3500 ppm Exposure time: 6 wk Lowest observable effect level: 3500 ppm
m-xylene	: Species: rat Application Route: oral gavage Dose: 0, 500, 2000 mg/kg Exposure time: 4 wk Number of exposures: 5 d/wk Lowest observable effect level: 500 mg/kg
Benzene, dimethyl-	: Species: rat Application Route: oral gavage Dose: 0, 62.5, 125, 250, 500, 100... Exposure time: 13 wk Number of exposures: daily, 5 d/wk NOEL: 1.000 mg/kg
	: Species: rat Application Route: Inhalation Dose: 0, 180, 460, 810 ppm Exposure time: 13 wk Number of exposures: 6 h/d, 5 d/wk NOEL: > 810 ppm
	: Species: rat Application Route: Inhalation Dose: 0, 450, 900, 1800 ppm Exposure time: 13 wk Number of exposures: 6 h/d, 6 d/wk Lowest observable effect level: 900 ppm
Toluene	: Species: rat Application Route: Inhalation Dose: 0, 100, 625, 1250, 3000 ppm Exposure time: 15 wk Number of exposures: 6.5 h/d, 5 d/wk NOEL: 625 ppm

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: Species: mouse
Application Route: Inhalation
Dose: 0, 100, 625, 1250, 3000 ppm
Exposure time: 14 wk
Number of exposures: 6.5 h/d, 5 d/wk
NOEL: 100 ppm

Isopentane

: Species: rat
Application Route: Inhalation
Dose: 1, 1000, 4500 ppm
Exposure time: 13 wk
Number of exposures: 6 h/d, 5 d/wk
NOEL: 2250 ppm

Carcinogenicity

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- p-Xylene
- : Species: rat
Dose: 0, 250, 500 mg/kg
Exposure time: 103 wks
Number of exposures: 5 d/wk
 - : Species: mouse
Dose: 0, 500, 1000 mg/kg
Exposure time: 103 wks
Number of exposures: 5 d/wk
- o-Xylene
- : Species: rat
Dose: 0, 250, 500 mg/kg
Exposure time: 103 wks
Number of exposures: 5 d/wk
 - : Species: mouse
Dose: 0, 500, 1000 mg/kg
Exposure time: 103 wks
Number of exposures: 5 d/wk
- Benzene, dimethyl-
- : Species: rat
Dose: 0, 250, 500 mg/kg
Exposure time: 103 wks
Number of exposures: 5 d/wk
Remarks: no evidence of carcinogenicity
 - : Species: mouse
Dose: 0, 500, 1000 mg/kg
Exposure time: 103 wks
Number of exposures: 5 d/wk
Remarks: no evidence of carcinogenicity
- Toluene
- : Species: rat
Dose: 0, 600, 1200 ppm
Exposure time: 2 yrs
Number of exposures: 6.5 h/d, 5 d/wk
Remarks: no evidence of carcinogenicity
 - : Species: mouse
Dose: 0, 600, 1200 ppm
Exposure time: 2 yrs
Number of exposures: 6.5 h/d, 5 d/wk
Remarks: no evidence of carcinogenicity

Reproductive toxicity

- Toluene
- : Species: rat
Application Route: Inhalation
Dose: 0, 100, 500, 2000 ppm
Test period: 95 d

Teratogenicity

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p-Xylene	: Species: mouse Application Route: oral gavage Dose: 0, 780, 1960, 2619 mg/kg Number of exposures: 3 times/d Test period: GD 6-15
o-Xylene	: Species: rat Application Route: Inhalation Dose: 0, 100, 500, 1000, 2000 ppm Number of exposures: 6 h/d, 7 d/wk Test period: GD 6-20
m-xylene	: Species: rat Application Route: Inhalation Dose: 0, 150, 1500, 3000 ppm Number of exposures: 24 h/d Test period: GD 7-14
	: Species: rat Application Route: Inhalation Dose: 0, 1, 100, 500, 1000, 2000 ppm Number of exposures: 6 h/d, 7 d/wk Test period: GD 6-20
Benzene, dimethyl-	: Species: rat Application Route: Inhalation Dose: 0, 805, 1610 ppm Number of exposures: 6 h/d Test period: GD 7-16
	: Species: mouse Application Route: oral gavage Dose: 0, 780, 1960, 2619 mg/kg Number of exposures: 3 times/d Test period: GD 6-15
Toluene	: Species: rat Application Route: Inhalation Dose: 0, 100, 500, 2000 ppm Test period: 95 d
Product Aspiration toxicity	: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.
Product Further information	: Concentrations substantially above the TLV value may cause narcotic effects. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Solvents may degrease the skin.

12. ECOLOGICAL INFORMATION**Toxicity to fish**

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Ethyl Tertiary Butyl Ether	: LC50: > 2.500 mg/l Exposure time: 96 HR Species: <i>Cyprinodon variegatus</i> (sheepshead minnow)
p-Xylene	: LC50: 2,0 mg/l Exposure time: 96 HR Species: <i>Marone saxatilis</i> (striped bass)
o-Xylene	: LC50: 7,6 mg/l Exposure time: 96 HR Species: <i>Salmo gairdneri</i> (Rainbow trout)
m-xylene	: LC50: 8,4 mg/l Exposure time: 96 HR Species: <i>Oncorhynchus mykiss</i> (rainbow trout) Toxic to fish.
Benzene, dimethyl-	: LC50: 8,2 mg/l Exposure time: 96 HR Species: <i>Salmo gairdneri</i> (Rainbow trout)
Toluene	: LC50: 18 - 36 mg/l Exposure time: 96 HR Species: <i>Pimephales promelas</i> (fathead minnow)
Isopentane	: LC50: 3,1 mg/l Exposure time: 96 HR Species: <i>Oncorhynchus mykiss</i> (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates.

Ethyl Tertiary Butyl Ether	: EC50: 110 mg/l Exposure time: 48 HR Species: <i>Daphnia magna</i> (Water flea)
p-Xylene	: 3,6 mg/l Exposure time: 24 HR Species: <i>Daphnia</i>
o-Xylene	: EC50: 0,5 mg/l Exposure time: 48 HR Species: <i>Daphnia magna</i> (Water flea)
m-xylene	: EC50: 9,56 mg/l Exposure time: 48 HR Species: <i>Daphnia</i>
Toluene	: EC50: 3,78 mg/l Exposure time: 48 HR Species: <i>Daphnia magna</i> (Water flea)
Isopentane	: EC50: 2,3 mg/l Exposure time: 48 HR Species: <i>Daphnia magna</i> (Water flea)

Toxicity to algae

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Ethyl Tertiary Butyl Ether	: EC50: 1.100 mg/l Exposure time: 72 HR Species: Selenastrum capricornutum (algae)
p-Xylene	: EC50: 45 mg/l Exposure time: 3 HR Species: Chlamydomonas angulosa (Green algae)
o-Xylene	: EC50: 4,3 mg/l Exposure time: 8 DAY Species: Selenastrum capricornutum (algae)
m-xylene	: EC50: 4,9 mg/l Exposure time: 72 HR Species: Selenastrum capricornutum (algae)
Toluene	: EC50: 134 mg/l Exposure time: 72 HR Species: Chlamydomonas angulosa (Green algae)

Elimination information (persistence and degradability)**Bioaccumulation**

p-Xylene	: Does not significantly accumulate in organisms.
o-Xylene	: Does not significantly accumulate in organisms.
m-xylene	: Does not significantly accumulate in organisms.

Biodegradability : Expected to be biodegradable

Further information on ecology

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

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14. TRANSPORT INFORMATION

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition). Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.

USDOT

UN1203, GASOLINE, 3, II

IMO / IMDG

UN1203, GASOLINE, 3, II, (-37 °C)

IATA

UN1203, GASOLINE, 3, II

ADR

UN1203, MOTOR SPIRIT, 3, II

RID

UN1203, GASOLINE, 3, II

15. REGULATORY INFORMATION**National legislation****Notification status**

Europe REACH	: On the inventory, or in compliance with the inventory
United States of America TSCA	: On the inventory, or in compliance with the inventory
Canada NDSL	: On the inventory, or in compliance with the inventory
Australia AICS	: Not in compliance with the inventory
New Zealand NZIoC	: On the inventory, or in compliance with the inventory
Japan ENCS	: On the inventory, or in compliance with the inventory
Korea KECI	: On the inventory, or in compliance with the inventory
Philippines PICCS	: Not in compliance with the inventory
China IECSC	: Not in compliance with the inventory

16. OTHER INFORMATION**Further information**

Legacy MSDS Number : 434260

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the

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results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.