SAFETY DATA SHEET: ODORLESS MINERAL SPIRITS

IN CASE OF TRANSPORTATION EMERGENCY CONTACT:
CHEMTREC:(800) 424-9300

ALL OTHER INQUIRIES:
(770) 904-7042 // www.ciscochem.com
266 Rue Cezzan Lavonia, GA 30553

1. IDENTIFICATION
Odorless Mineral Spirits

CAS # 68551-19-9

2. HAZARDS IDENTIFICATION
Classification of the substance or mixture
This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Emergency Overview

Danger

Form: Liquid

Physical state: Liquid

Color: Colorless at room temperature

Odor: Mild, Hydrocarbon

OSHA Hazards : Combustible Liquid, Aspiration hazard

Classification

Flammable liquids , Category 4

Aspiration hazard , Category 1

Signal word: Danger

Hazard Statements: Combustible liquid
May be fatal if swallowed and enters airways

Precautionary Statements:

Prevention:
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/ eye protection/ face protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
In case of a fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: Store in a well-ventilated place, keep cool. Store locked up

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

Carcinogenicity:

IARC:
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP:
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH:
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

3. COMPOSITION

Synonyms :	Isoalkanes IsoparaffinsAliphatic hydrocarbon
Molecular formula :	UVCB

COMPONENT	CAS #	WEIGHT %
C12-C14 Isoalkanes	68551-19-9	100%

4. FIRST AID MEASURES

GENERAL ADVICE:

Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

IF INHALED:
If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

IN CASE OF SKIN CONTACT:
If on skin, rinse well with water. If on clothes, remove clothes.

IN CASE OF EYE CONTACT:
Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

IF SWALLOWED:
Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

5. FIRE FIGHTING MEASURES

Flash point	61˚ C (142 F) Method Tag closed cup
Autoignition temperature	230˚ C (446˚ F)

Suitable extinguishing media	Alcohol-resistant foam. Carbon Dioxide (Co2) Dry Chemical
Unsuitable extinguishing media	High volume water jet
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary
Further information	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. Keep away from open flames, hot surfaces and sources of ignition
Hazardous decomposition products	Carbon Dioxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions :
Use personal protective equipment. Ensure adequate ventilation.

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). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Advice on safe handling
Avoid formation of aerosol. Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion
Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers
No smoking. Keep container tightly closed in a dry and well- ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

8. EXPOSURE CONTROLS AND PERSONAL PROECTION

Ingredients with workplace control parameters

Ingedients	Value	Control parameters	Note
C12-C14 Isoalkanes	TWA	1,200 mg/m3	RCP

RCP = Reciprocal Calculation Procedure

Engineering measures
Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this

material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment
Respiratory protection
Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Hand Protection
The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye Protection
Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate:. Flame-resistant clothing. Footwear protecting against chemicals.

Hygiene measures
When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Form	Liquid
Physical State	Liquid
Color	Colorless at room temperature
Odor	Mild, hydrocarbon

SAFETY DATA

Flash Point	61˚C (142˚ F) Method: Tag closed cup
Lower explosion limit	0.68% (V)
Upper explosion limit	5.4% (V)
Oxidizing properties	no

Autoignition temperature	230˚ C (446˚F)
Thermal decomposition	no data available
Molecular formula	UVCB
Molecular weight	Not applicable
pH	7
pour point	no data available
Boiling/Point & range	179 - 210˚C (354 - 410˚ F)
Vapor pressure	2.60 MMHG @ 38˚C (100˚F)
Relative density	0.76, 15.6˚C (60.1˚F)
Water Solubility	negligible
Partition coefficient: n-octanol/water	No data available
Viscosity, kinematic	1.5 cSt @ 38˚C (100˚F)
Relative vapor density	3 (Air = 1.0)
Evaporation rate	1
Percent volatile	>99%

10. STABILITY AND REACTIVITY

Chemical stability : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions

Conditions to avoid	Heat, flames and sparks
Materials to avoid	may react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Thermal decomposition	No data available
Hazardous decomposition products	Carbon oxides
Other data	No decomposition if stored and applied as directed

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

C12-C14 Isoalkanes
LD50: > 5000 milligram per kilogram
Species: rat

Method: OECD Test Guideline 401
Information given is based on data obtained from similar substances.

Acute inhalation toxicity

C12-C14 Isoalkanes
LC50: > 5.3milligram per literExposure time: 4 h
Species: rat
Test atmosphere: vapor
Method: OECD Test Guideline 403
Information given is based on data obtained from similar substances.

Skin irritation

C12-C14 Isoalkanes
No skin irritation
Information given is based on data obtained from similar substances.

Eye irritation
C12-C14 Isoalkanes
No eye irritation
Information given is based on data obtained from similar substances.

Sensitization
C12-C14 Isoalkanes
Classification: Did not cause sensitization on laboratory animals.
Information given is based on data obtained from similar substances.

Repeated dose toxicity
C12-C14 Isoalkanes
Species: Monkey
Application Route: Inhalation
Dose: 0, 654 ppm
Exposure time: 4 wk
Number of exposures: 6 h/d, 3 d/wk NOEL: > 654 ppm
Method: OECD Test Guideline 412
Species: rat, male and female Sex: male and female Application Route: oral gavage Dose: 0, 25, 150, 1000 mg/kg/d Exposure time: 4 wk
Number of exposures: daily
NOEL: >= 1000 mg/kg/d
Method: OECD Guideline 422
Information given is based on data obtained from similar substances.

Reproductive toxicity
C12-C14 Isoalkanes
Species: rat
Sex: male
Application Route: oral gavage
Dose: 0, 750, 1500, 3000 mg/kg/bw/d
Number of exposures: daily
Test period: 90 d
Method: OECD Test Guideline 415
NOAEL Parent: >= 3000 mg/kg/bw/d
Information given is based on data obtained from similar substances.
Species: rat
Sex: female
Application Route: oral gavage
Dose: 0, 750, 1500 mg/kg/bw/d
Number of exposures: daily
Test period: 90 d
Method: OECD Test Guideline 415
NOAEL Parent: >= 1500 mg/kg/bw/d

NOAEL F1: 750 mg/kg/bw/d
Information given is based on data obtained from similar substances.
Species: rat
Sex: male and female
Application Route: inhalation (vapor)
Dose: 100, 300 ppm
Number of exposures: 6 h/d/5d/wk
Test period: 8 wk
Method: OECD Guideline 421
NOAEL Parent: >= 300 ppm
NOAEL F1: >= 300 ppm
Information given is based on data obtained from similar substances.

Developmental Toxicity
C12-C14 Isoalkanes
Species: rat
Application Route: Inhalation
Dose: 100, 300 ppm
Exposure time: GD 6-15
Number of exposures: 6 h/d
NOAEL Teratogenicity: >= 300 ppm
Information given is based on data obtained from similar substances.
Species: rat
Application Route: Inhalation
Dose: 300, 900 ppm
Exposure time: GD 6-15
Number of exposures: 6 h/d
Method: OECD Guideline 414
NOAEL Teratogenicity: >= 900 ppm
NOAEL Maternal: >= 900 ppm
Information given is based on data obtained from similar substances.
Species: rat
Application Route: oral gavage
Dose: 0, 500, 1000, 1500 mg/kg/d
Exposure time: GD 6-15
Number of exposures: Daily
Method: OECD Guideline 414
NOAEL Teratogenicity: 1,000 mg/kg
NOAEL Maternal: 500 mg/kg
Information given is based on data obtained from similar substances.

Aspiration toxicity
C12-C14 Isoalkanes
May be fatal if swallowed and enters airways.

CMR effects
C12-C14 Isoalkanes
Carcinogenicity: Limited evidence of carcinogenicity in animal studies
Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects., In vivo tests did not show mutagenic effects
Teratogenicity: Animal testing did not show any effects on fetal development.
Reproductive toxicity: No adverse effects expected

Isoparaffin Solvent my degrease the skin

12. ECOLOGICAL INFORMATION

TOXICITY TO FISH

C12-C14 Isoalkanes
LL50: > 1,000 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES

C12-C14 Isoalkanes

EL50: > 1,000 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
static test Method: OECD Test Guideline 202 Information given is based on data obtained from similar substances.

Toxicity to algae
C12-C14 Isoalkanes
EL50: > 1,000 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (green algae) Growth inhibition Method: OECD Test Guideline 201 Information given is based on data obtained from similar substances.

Toxicity to fish (Chronic toxicity)
C12-C14 Isoalkanes
NOELR: 0.316 mg/l Exposure time: 28 d
Species: Oncorhynchus mykiss (rainbow trout) Method: QSAR modeled data

Biodegradability
C12-C14 Isoalkanes
aerobic 31 %
Testing period: 28 d
Method: OECD Test Guideline 301F
Information given is based on data obtained from similar substances.
Expected to be inherently biodegradable.

Results of PBT assessment
C12-C14 Isoalkanes
Non-classified PBT substance, Non-classified vPvB substance

Additional ecological information
C12-C14 Isoalkanes
This material is not expected to be harmful to aquatic
organisms.

13. DISPOSAL CONSIDERATIONS

The information in this SDS pertains only to the product as shipped.
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
Do not dispose of waste into sewer. 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.

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 SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Testing (ASTM D4206) has shown product does not sustain combustion.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. REGULATORY INFORMATION

National legislation

SARA 311/312 Hazards	Fire Hazard
CERCLA Reportable Quantity	This material does not contain any componenets with a CERCLA RQ
SARA 302 Reportable Quantity	This material does not contain any components with a SARA 302 RQ
SARA 302 Threshold Planning Quantity	SARA 302: No chemicals in this material are subject tot he reporting requirements of SARA Title III, Section 302
SARA 3024 Reportable	This material does not contain any components with a section #)$ EHS RQ

Quantity

SARA 313 Ingredients — SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

Clean Air Act

Ozone-Depletion Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

US State Regulations
Pennsylvania Right To Know
No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right to Know
No components are subject to the New Jersey Right to Know Act

California Prop 65 Ingredients
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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 DSL	On the inventory, or in compliance with the inventory
Australia AICS	On the inventory, or in compliance with the inventory
NewZealand NZIoC	Not 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	On the inventory, or in compliance with the inventory
China IECSC	On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

NFPA Classification

Health Hazard: 1 Fire Hazard: 1 Reactivity Hazard: 0

Further information
Legacy SDS Number 29020

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

The information in this SDS pertains only to the product as shipped.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,

transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

KEY OR LEGEND TO ABBREVIATIONS USED IN THE SDS

ACGIH AMERICAN CONFERENCE OF GOVERNMENT INDUSTRIAL HYGIENISTS

AICS AUSTRIALIA, INVENTORY OF CHEMICAL SUBSTANCES

DSL CANADA, DOMESTIC SUBSTANCES LIST AGENCY

NDSL CANADA, NON-DOMESTIC SUBSTANCES LIST OCCUPATIONAL

CNS CENTRAL NERVOUS SYSTEM

CAS CHEMICAL ABSTRACT SERVCIE

EC50 EFFECTIVE CONCENTRATION

EC50 EFFECTIVE CONCENTRATION 50%

EGEST EOSCA GENERIC EXPOSURE SCENARIO TOOL

EOSCA EUROPEAN OILFIELD SPECIALTY CHEMICALS ASSOC

EINECS EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES

MAK GERMANY MAXIMUM CONCENTRATION VALUES

GHS GLOBALLY HARMONIZED SYSTEM ACT

>= GREATER THAN OR EQUAL TO

IC50 INHIBITION CONCENTRATION 50%

IARC INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IECSC INVENTORY OF EXISTING CHEMICAL SUBSTANCES IN CHINA

ENCS JAPAN, INVENTORY OF EXISTING AND NEW CHEMICALSUBSTANCES

KECI KOREA, EXISTING CHEMICAL INVENTORY

LD50 LETHAL DOSE 50%

LOAEL LOWEST OBSERVED ADVERSE EFFECT LEVEL

NFPA NATIONAL FIRE PROTECTION

NIOSH NATIONAL INSTITUTE FOR SAFETY & HEALTH

NTP NATIONAL TOXICOLOGY PROGRAM

NZioC NEW ZEALAND INVENTORY OF CHEMICALS

NOAEL NO OBSERVABLE ADVERSE EFFECT LEVEL

NOEC NO OBSERVED EFFECT CONCENTRATION

OSHA OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION

PEL PERMISSIBLE EXPOSURE LIMIT

PICCS PHILIPPINES INVENTORY OF COMMERCIAL CHEMICAL SUBSTANCES

PRNT PRESUMED NOT TOXIC

RCRA RESOURCE CONSERVATION RECOVERY

STEL SHORT-TERM EXPOSURE LIMIT

SARA SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT

TLV THRESHOLD LIMIT VALUE

TWA TIME WEIGHTED AVERAGE

TSCA TOXIC SUBSTANCE CONTROL ACT

UVCB UNKNOWN OR VARIABLE COMPOSITION COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS

LC50 LETHAN CONCENTRATION 50%

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