

Material Safety Data Sheet

D-Carvone

SECTION 1.1 – PRODUCT IDENTIFICATION

Product Name : Davana Oil
CAS No. : 8016-03-3
Molecular Formula : $C_{10}H_{14}O$
Molecular Weight : 150.22 g/mole

SECTION: 1.2 COMPANY IDENTIFICATION

Company Name: Indenta Chemicals (India) Pvt. Ltd.

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SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	% by Weight
Davana Oil	8016-03-3	100

Toxicological Data on Ingredients: No Data Available

SECTION 3: HAZARD IDENTIFICATION

3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin sensitization (Category 1), H317

3.2 Label elements

Labelling according Regulation (EC) No



Pictogram

Signal word

Warning

Hazard statement(s)

H317

May cause an allergic skin reaction

Precautionary statement(s)

P261 Avoid breathing mist or vapors.
 P272 Contaminated work clothing should not be allowed out of the workplace
 P280 Wear protective gloves.
 P302 + P352 IF ON SKIN: Wash with plenty of water.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

Indenta Chemicals (India) Pvt. Ltd.

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P362 + P364 Take off contaminated clothing and wash it before reuse.
regulations.

international

Supplemental Hazard

Statements none

3.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 4: FIRST AID MEASURES

4.1 Description of first-aid measures

If inhaled

Remove from exposure area to fresh air. Obtain medical advice if discomfort continues.

In case of skin contact

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. Watch out for any remaining product between skin and clothing, watches, shoes, etc. In the event of an allergic reaction, seek medical attention. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In case of eye contact

Flush with plenty of water and seek medical advice.

If swallowed

Do not give the patient anything orally. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label. If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the doctor.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIRE AND EXPLOSION DATA

5.1 Extinguishing media

Suitable extinguishing media

CO₂, Dry powder, Foam.

Keep packages near the fire cool, to prevent pressurised containers from bursting. Prevent the effluent of fire-fighting measures from entering drains or waterways.

5.2 Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

In the event of a fire, the following may be formed: carbon monoxide (CO) and carbon dioxide (CO₂)

5.3 Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

5.4 Further information

No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker	Avoid any contact with the skin and eyes.
For first aid worker	First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2 Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures. Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3 Methods and materials for containment and cleaning up

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Clean preferably with a detergent, do not use solvents.

6.4 Reference to other sections

See sections 8 and 13.

SECTION7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Requirements relating to storage premises apply to all facilities where the substance is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this substance.

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Remove contaminated clothing and protective equipment before entering eating areas.

Fire prevention:

Handle in well-ventilated areas. Prevent the formation of flammable or explosive concentrations in air and avoid vapour concentrations higher than the occupational exposure limits. Never inhale this substance. Prevent the accumulation of electrostatic charges with connections to earth. Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected. Keep packages tightly closed and away from sources of heat, sparks and naked flames. Do not use tools which may produce sparks. Do not smoke. Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal protection, see section 8. Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the substance is used. Never open the packages under pressure.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from food and drink, including those for animals.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

Avoid accumulation of electrostatic charges.

Packaging

Always keep in packaging made of an identical material to the original.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
13466-78-9	20 ppm	-	-	-	-

8.2 Exposure controls

Protective Equipment

Process Conditions

Provide eyewash station.

Engineering Measures

Provide adequate ventilation.

Respiratory Equipment

Provide adequate ventilation.

Hand Protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Recommended properties: - Impervious gloves in accordance with standard EN374

Eye Protection

Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes. Before handling, wear safety goggles in accordance with standard EN166.

Other Protection

No additional data available.

Hygiene Measures

Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Keep away from foodstuffs, beverages and feed.

Personal Protection

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area. Never eat, drink or smoke during use.

Remove and wash contaminated clothing before reusing. Ensure that there is adequate ventilation, especially in confined areas.

Skin Protection

Avoid skin contact. Wear suitable protective clothing. Suitable type of protective clothing: In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.

Environmental Exposure Controls

Avoid discharging into drainage water. Only eliminate by authorised companies.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form: Liquid Color: yellow
b) Odor	No data available
c) Odor Threshold	No data available
d) pH	No data available

e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	96 - 98 °C
g) Flash point	89.0 °C
h) Evaporation rate	No data available
i) Flammability (solid,gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	0.96
n) Water solubility	Insoluble in water.
o) Partition coefficient: n-octanol/water	No data available
p) Autoignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid:

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

The thermal decomposition may release/form: carbon monoxide (CO) and carbon dioxide (CO₂)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Toxicity to fish static test LC50 - Danio rerio (zebra fish) - 50 mg/l - 96 h (OECD Test Guideline 203)

Skin corrosion/irritation

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

May cause an allergic reaction by skin contact.

Germ cell mutagenicity

No data available

Carcinogenicity

Monograph(s) from the IARC (International Agency for Research on Cancer):

CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

May be fatal if swallowed and enters airways.

Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

Additional Information

No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Very toxic to aquatic life with long lasting effects. No aquatic toxicity data available for the substances. The product must not be allowed to run into drains or waterways.

12.2 Persistence and degradability

HYDROCARBONS

Biodegradability: no degradability data is available, the substance is considered as not degrading quickly.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Do not discharge into the environment especially not into waterways, sewers and the sea.

SECTION 13: DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC. Do not pour into drains or waterways.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste. Do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container. Give to a certified disposal contractor

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR/RID: NA IMDG: NA IATA: NA

14.2 UN proper shipping name

ADR/RID: NA

IMDG: NA

IATA: NA

14.3 Transport hazard class(es)

ADR/RID: NA IMDG: NA IATA: NA

14.4 Packaging group

ADR/RID: NA IMDG: NA IATA: NA

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: yes IATA: no

14.6 Special precautions for user

Not available

SECTION 15: OTHER REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**Statutory Instruments**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2 Chemical Safety Assessment

No data available

SECTION 16: ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

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