

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

Product name: BROFLANILIDE 20% SC
Use / description of product: Use as an agricultural/horticultural insecticide
Company name: INDOFIL INDUSTRIES LIMITED
 Kalpataru Square, 4th Floor,
 Kondivita Road, Off. Andheri Kurla Road, Andheri (E),
 Mumbai 400 059, Maharashtra, India.
 Email: customercare@indofil.com
 Toll Free No.: 1800-120-003-004

2. HAZARDS IDENTIFICATION

GHS Classification
Hazard Symbol:



Signal Word:

Warning

Hazard Statement:

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H412 Harmful to aquatic life with long lasting effects.
 P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read label before use.
 P391 Collect spillage.
 P332 + P313 If skin irritation occurs: Get medical advice/attention.
 P501 Dispose of contents and container to hazardous or special waste collection point

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS	%
Active ingredient (Broflanilide)	1207727-04-5	20
Other ingredients	-----	QS to make up 1000

4. FIRST AID MEASURES

Most Important symptoms and effects, both acute and delayed

Skin contact
Eye contact

There may be mild irritation at the site of contact
 There may be irritation and redness. The vision may become blurred

Ingestion

There may be soreness and redness of the mouth and throat

Description of first aid measures

In general

Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment..

After Ingestion	Take the victim into fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest Call a physician or poison control center immediately.
After eye contact	Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
After skin contact	Immediately wash skin with soap and plenty of water. Consult a physician if irritation develops.
After Inhalation	Remove to fresh air. Consult a physician if irritation develops

Indication of any immediate medical attention and special treatment needed

Supportive care. No specific antidote. Treatment based on judgement of physician, in response to symptoms of patient.

5. FIRE-FIGHTING MEASURES

Extinguishing media:	Water spray, dry powder, foam, carbon dioxide
Exposure hazards:	Exposure to decomposition products may be a hazard to health.
Protection of fire-fighters:	Wear self-contained breathing apparatus. Run-off from fire control may be a pollution hazard. If area is not too heavily exposed to fire, and if conditions permit, let fire burn itself out, since water may increase the contamination hazard.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Eliminate all sources of ignition. Do not create dust.
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
Clean-up procedures:	For small amounts: Pick up with suitable absorbent material For large amounts: Dike spillage. Pump off product.

7. HANDLING AND STORAGE

Handling requirements:	Ensure there is sufficient ventilation of the area. Smoking is forbidden. Use non-sparking tools. When handling do not eat, drink or smoke.
Storage conditions:	Store in cool, well-ventilated area. Keep away from sources of ignition. Keep container tightly closed. Keep in original containers, out of reach of children Never allow the product to become wet during storage. This may lead to chemical changes, which will reduce the effectiveness as an insecticide and could create flammable vapours.
Suitable packaging:	Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:	Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.
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Respiratory protection:

Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection:

Protective gloves
Requirements can vary as a function of the use. Therefore, it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection:

Safety goggles.

Skin protection:

Mixers and loaders must wear overalls, protective goggles and chemical-resistant apron.

Applicators and other handlers must wear overalls, goggles and waterproof gloves. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

9. PHYSICAL AND CHEMICAL PROPERTIES

State:	Liquid
Colour:	Cream
Odour:	Mild odour
Solubility in water:	Forms suspension in water
pH	6 - 8
Flash point °C:	Not Applicable

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to avoid:	Acids and moisture (in storage)
Hazardous decomp. products:	No hazardous decomposition products if stored and handled as prescribed/indicated..

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients:	BROFLANILIDE
<u>Acute toxicity (Assessment largely or completely based on data for active substance)</u>	
Acute Oral LD ₅₀ (Rat)	> 2.000 mg/kg
Acute Dermal LD ₅₀	> 5.000 mg/kg
Acute Inhalation LD ₅₀	> 1,7 mg/l
EYE Irritation (Rabbit)	No irritation.
SKIN Irritation (Rabbit)	Non irritant
Skin Sensitization (Guinea Pig)	There is no evidence of a skin-sensitizing potential.

12. ECOLOGICAL INFORMATION

Ecotoxicity: (Assessment largely or completely based on data for active substance)

SAFETY DATA SHEET
BROFLANILIDE 20% SC
(ALECTO)

Aquatic toxicity :

Fish

Material is very toxic to aquatic organisms.

LC50 (Oncorhynchus mykiss (rainbow trout)): 0.47 mg/l LC₅₀ (96 h)
LC50 (96 h) > 0,855 mg/l, Oncorhynchus mykiss

Algae EC₅₀ (96 h)

5,12 mg/l (growth rate), Pseudokirchneriella subcapitata

Daphnia EC₅₀ (48 hr)

No data

Environmental Fate

Persistence and Degradability:

Not readily degradable.

Bio-accumulation potential:

189 - 234, Oncorhynchus mykiss

Partition coefficient, n-octanol/water

Mobility in soil:

Potential for mobility in soil is low.

13. DISPOSAL CONSIDERATIONS

Disposal operations:

Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility.

Disposal of packaging:

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

U.S> Department of Transportation (DOT) Bulk

UN no:

3082

Shipping name:

Environmentally Hazardous Substance, solid, n.o.s. (Broflanilide)

Hazard Class:

9

Packing group:

III

Land Transport (ADR / RID)

UN no:

3082

Shipping name:

Environmentally Hazardous Substance, solid, n.o.s. (Broflanilide)

(Broflanilide)Hazard Class:

9

Packing group:

III

Marine Transport (IMDG / IMO)

UN no:

Shipping name:

Environmentally Hazardous Substance, solid, n.o.s. (Broflanilide)

Hazard Class:

9

Packing group:

III

Marine pollutant:

Yes

EmS:

F-A, S-F

Air transport (IATA / ICAO)

UN no:

3082

Shipping name:

Environmentally Hazardous Substance, solid, n.o.s. (Broflanilide)

Hazard Class:

9

Packing group:

III

Cargo Packing instructions:

9

15. REGULATORY INFORMATION



Dangerous for environment

Hazard symbol
Risk Phrase
Safety Phrase

Xn, N
R21 Harmful in contact in skin
S2 Keep out of reach of children
S60 This material and its container must be disposed of as hazardous waste
S61 Avoid release to the environment. refer to special instructions/safety data sheets

16. OTHER INFORMATION

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.