

CAS No: 90035-08-8
 RTECS No: DJ3100300
 UN No: 3027
 EC No: 607-375-00-5

4-Hydroxy-3-(1,2,3,4-tetrahydro-3-(4-(4-trifluoromethylbenzyloxy)phenyl)-1-naphthyl)coumarin
 4-Hydroxy-3-(1,2,3,4-tetrahydro-3-(4-((4-(trifluoromethyl)phenyl)methoxy)phenyl)-1-naphthalenyl)-2H-1-benzopyran-2-one
 $C_{33}H_{25}F_3O_4$
 Molecular mass: 542.6

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			

EXPOSURE		STRICT HYGIENE! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!	IN ALL CASES CONSULT A DOCTOR! (See Notes).
Inhalation	See Ingestion.	Ventilation (not if powder), local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
Skin	MAY BE ABSORBED! See Ingestion.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Eyes		Face shield or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Dizziness. Drowsiness. Nausea. Shock or collapse. Bleeding (see Notes).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention. See Notes.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Do NOT wash away into sewer. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Personal protection: complete protective clothing including self-contained breathing apparatus. Do NOT let this chemical enter the environment.	T+ Symbol N Symbol R: 26/27/28-48/23/24/25-50/53 S: (1/2-)28-36/37/39-45-60-61 UN Hazard Class: 6.1 UN Pack Group: I Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs.

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-61GT7-I	Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs. Well closed.

IMPORTANT DATA

Physical State; Appearance

WHITE SOLID.

Chemical dangers

The substance decomposes on burning producing toxic and corrosive fumes including hydrogen fluoride (see ICSC0283) and carbon monoxide (see ICSC0023).

Occupational exposure limits

TLV not established.

Routes of exposure

The substance can be absorbed into the body by inhalation, through the skin and by ingestion.

Inhalation risk

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.

Effects of short-term exposure

The substance may cause effects on the blood, resulting in impairment of blood clotting. The effects may be delayed. Medical observation is indicated.

PHYSICAL PROPERTIES

Melting point: cis-isomer: 181-191°C; trans-isomer: 163-166°C

Relative density (water = 1): 1.2

Solubility in water, g/100 ml: 0.0001 (none)

Vapour pressure, Pa at 25°C: negligible

Octanol/water partition coefficient as log Pow: 4.7 (estimated)

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. This substance may be hazardous to the environment; special attention should be given to fauna. In the food chain important to humans, bioaccumulation takes place, specifically in aquatic organisms. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.

NOTES

The symptoms of bleeding do not become manifest until days later.

Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available.

Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.

Do NOT take working clothes home.

Storm and Stratagem are trade names.

Card has been partly updated in April 2005. See sections EU classification, Emergency Response.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible