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Safety Data Sheet
DH99 LOW VOC FAST HRDNR

1. Identification

Product identifier used on the label

DH99 LOW VOC FAST HRDNR

Recommended use of the chemical and restriction on use

Recommended use*: Paints, Coatings and Related Materials; for industrial use only
Unsuitable for use: Not intended for sale to or use by the general public.

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:
BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1, CANADA

Telephone: +1 289 360-1300

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: (800) 454-COPE (2673)

Other means of identification

Chemical family: Coating
Synonyms: Paint Related Material

2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Classification of the product

Resp. Sens.	1	Respiratory sensitization
Skin Sens.	1	Skin sensitization
STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure
Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
Flam. Liq.	2	Flammable liquids

Acute Tox.	4 (Inhalation - vapour)	Acute toxicity

Label elements

Pictogram:

Signal Word:
Danger

Hazard Statement:

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P284	In case of inadequate ventilation wear respiratory protection.
P264	Wash contaminated body parts thoroughly after handling.
P242	Use only non-sparking tools.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P243	Take action to prevent static discharges.
P233	Keep container tightly closed.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary Statements (Response):

P312	Call a POISON CENTER or physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P370 + P378	In case of fire: Use water spray for extinction.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P337 + P313	If eye irritation persists: Get medical attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.

Hazards not otherwise classified

No applicable information available.

3. Composition / Information on Ingredients

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

methyl acetate
CAS Number: 79-20-9
Content (W/W): >= 7.0 - < 10.0%
Synonym: Methyl acetate

n-Butyl acetate
CAS Number: 123-86-4
Content (W/W): >= 3.0 - < 5.0%
Synonym: n-Butyl acetate

1,6-hexamethylene diisocyanate
CAS Number: 822-06-0
Content (W/W): >= 0.1 - < 0.2%
Synonym: Hexamethylene diisocyanate

Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer
CAS Number: 53880-05-0
Content (W/W): >= 7.0 - < 10.0%
Synonym: 5-Isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane homopolymer

4-chloro-α,α,α-trifluorotoluene
CAS Number: 98-56-6
Content (W/W): >= 20.0 - < 25.0%
Synonym: No data available.

HDI-oligomer (trimer)
CAS Number: 28182-81-2
Content (W/W): >= 50.0 - < 75.0%
Synonym: No data available.

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

If in eyes:
Flush with copious amounts of water for at least 15 minutes. Hold eyelids open to facilitate rinsing. If irritation develops, seek medical attention. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Information on: methyl acetate
Symptoms: Overexposure may cause:, tiredness, anxiety, optic nerve damage, tightness in the chest, coughing, headache

Information on: Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer
Symptoms: No data available.

Information on: 4-chloro-α,α,α-trifluorotoluene
Symptoms: Overexposure may cause:, lethargy, nausea, headache, dizziness
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Indication of any immediate medical attention and special treatment needed

Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
carbon dioxide, foam, dry powder

Unsuitable extinguishing media for safety reasons:
water jet

Special hazards arising from the substance or mixture
Advice for fire-fighters
Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:
Avoid water contamination in closed containers of confined areas, because carbon dioxide gas is generated. Remove product from areas of fire, or otherwise cool sealed containers with water in order to avoid pressure build up due to heat.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Avoid contact with skin and eyes. Use antistatic tools. Wear suitable personal protective clothing and equipment. Ensure adequate ventilation.

Environmental precautions
Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up
Dike spillage. Wash down spill area with decontamination solution. Spill area can be decontaminated with the following recommended decontamination solution: Allow solution to stand for at least 10 minutes. Remove containers to a safe place, cover loosely, and allow to stand for 24 to 48 hours before sealing and disposing. Shovel into open container. Add additional decontamination solution to waste container. Mixture of 80 % water and 20 % non-ionic surfactant, or 90 - 95 % water, 3 - 8 % concentrated ammonia and 2 % detergent.

7. Handling and Storage

Precautions for safe handling
Handle and open container with care. Avoid water contamination in closed containers of confined areas, because carbon dioxide gas is generated. If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing. Do not reseal container if contamination of the product is suspected. Use static lines when mixing and transferring material. Do not puncture, drop, or slide containers. Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing.

Protection against fire and explosion:
Use antistatic tools. Exhaust fans should be explosion proof. Avoid all sources of ignition: heat, sparks, open flame. Sealed containers should be protected against heat as this results in pressure build-up.

Conditions for safe storage, including any incompatibilities
Segregate from oxidizing agents. Segregate from incompatible substances. Keep away from water.

Further information on storage conditions: Protect against moisture. Carbon dioxide gas can cause containers to expand and possibly rupture explosively. Protect from direct sunlight. If moisture enters isocyanate containers, CO2 forms and pressure builds up.

Storage stability:
Slow non-hazardous polymerization possible when at or exceeding maximum temperatures.

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

methyl acetate	OSHA PEL	PEL 200 ppm 610 mg/m3 ; STEL value 250 ppm 760 mg/m3 ; TWA value 200 ppm 610 mg/m3 ;
	ACGIH TLV	TWA value 200 ppm ; STEL value 250 ppm ;
n-Butyl acetate	OSHA PEL	PEL 150 ppm 710 mg/m3 ; STEL value 200 ppm 950 mg/m3 ; TWA value 150 ppm 710 mg/m3 ;

	ACGIH TLV	STEL value 150 ppm ; TWA value 50 ppm ;
1,6-hexamethylene diisocyanate	ACGIH TLV	TWA value 0.005 ppm ;

Advice on system design:
Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection:
Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination.

Hand protection:
Use appropriate chemically impervious gloves as determined by an evaluation of glove performance characteristics and the hazards and potential hazards identified, including but not limited to butyl, natural and synthetic rubber, nitrile, or neoprene.

Eye protection:
Wear face shield if splashing hazard exists. Tightly fitting safety goggles (chemical goggles).

Body protection:
Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:
Work place should be equipped with a shower and an eye wash. Remove contaminated clothing. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Contact lenses should not be worn. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	aromatic	
Odour threshold:	No applicable information available.	
Colour:	clear	
pH value:	No applicable information available.	
Melting point:	No applicable information available.	
Freezing point:	No applicable information available.	
Boiling range:	55.80 - 139.00 °C	
Sublimation point:	No applicable information available.	
Flash point:	9 °C	
Flammability:	No applicable information available.	
Lower explosion limit:	0.90 %(V)	
Upper explosion limit:	16.00 %(V)	
Autoignition:	No applicable information available.	
Vapour pressure:	179.49 mmHg (20 °C)	
Density:	1.1540 g/cm3 (20 °C)	(calculated)
Relative density:	1.1540 (20 °C)	
Vapour density:	No applicable information available.	
Partitioning coefficient n-octanol/water (log Pow):	No applicable information available.	
Thermal decomposition:	No applicable information available.	

Viscosity, dynamic:	No applicable information available.
Viscosity, kinematic:	> 20.600 mm2/s
Solubility in water:	No applicable information available.
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	No applicable information available.

10. Stability and Reactivity

Reactivity
No applicable information available.

Chemical stability

Possibility of hazardous reactions
On contact with water, gaseous decomposition products are formed, which cause build-up of pressure in tightly closed containers. Reacts with water.

Conditions to avoid
Avoid all sources of ignition: heat, sparks, open flame. Avoid direct contact with water. Avoid electrostatic discharge.

Incompatible materials
strong oxidizing agents, thiols, transition metal salts, water, amines, alcohols

Hazardous decomposition products

Decomposition products:
nitrogen oxides

Thermal decomposition:
No applicable information available.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity
Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Information on: 1,6-hexamethylene diisocyanate
Assessment of acute toxicity:Of high toxicity after short-term inhalation. In animal studies the substance is virtually nontoxic after a single skin contact. Of moderate toxicity after single ingestion.

Information on: HDI-oligomer (trimer)
Assessment of acute toxicity:Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Of moderate toxicity after short-term inhalation.

Oral
Type of value: LD50
Species: rat
Value: 6,482.000000 mg/kg

Inhalation
Type of value: LC50
Species: rat
Value: > 21.100000 mg/l

Dermal
Type of value: LD50
Species: rat
Value: > 2,000.000000 mg/kg

Assessment other acute effects
Assessment of STOT single:
Causes temporary irritation of the respiratory tract.

Irritation / corrosion
Assessment of irritating effects: Eye contact causes irritation.

Information on: methyl acetate
Assessment of irritating effects: Not irritating to the skin. Eye contact causes irritation.

Information on: n-Butyl acetate
Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.
Not irritating to the skin. May cause slight irritation to the eyes.

Information on: 1,6-hexamethylene diisocyanate
Assessment of irritating effects: Irritating to eyes and skin.

Information on: 4-chloro-α,α,α-trifluorotoluene
Assessment of irritating effects: May cause slight irritation to the skin. Not irritating to the eyes.

Information on: HDI-oligomer (trimer)
Assessment of irritating effects: May cause slight irritation to the skin. May cause slight irritation to the eyes.

Sensitization

Information on: 1,6-hexamethylene diisocyanate
Assessment of sensitization:
The substance may cause sensitization of the respiratory tract. Sensitization after skin contact possible.

Information on: HDI-oligomer (trimer)
Assessment of sensitization:
Caused skin sensitization in animal studies.

Aspiration Hazard
No applicable information available.

Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: methyl acetate
Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. No substance-specific organtoxicity was observed after repeated administration to animals.

Information on: n-Butyl acetate
Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation.

Information on: 1,6-hexamethylene diisocyanate
Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. Based on the chemical structure a neurotoxic effect by repeated administration cannot be excluded.

Information on: 4-chloro-α,α,α-trifluorotoluene
Assessment of repeated dose toxicity: Repeated exposure to the substance by oral administration leads to effects similar to those found after single exposure. Repeated exposure to the substance by inhalative administration leads to effects similar to those found after single exposure.
May affect the liver and kidneys as indicated in animal studies. Overexposure may cause blood abnormalities.

Information on: HDI-oligomer (trimer)
Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation.

Carcinogenicity
Assessment of carcinogenicity: No data available concerning carcinogenic effects.

Reproductive toxicity

Information on: methyl acetate
Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Medical conditions aggravated by overexposure
Medical supervision of all employees who handle or come into contact with isocyanates is recommended. Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with isocyanates. Once a person is diagnosed as having pulmonary sensitization (allergic asthma) to isocyanates, further exposure is not recommended. The isocyanate component is a respiratory sensitizer. It may cause allergic reaction leading to asthma-like spasms of the bronchial tubes and difficulty in breathing.

12. Ecological Information

Additional information

Other ecotoxicological advice:
Acutely toxic for aquatic organisms.

13. Disposal considerations

Waste disposal of substance:
Do not discharge into drains/surface waters/groundwater.
Must be disposed of or incinerated in accordance with local regulations.

14. Transport Information

Land transport
TDG

Hazard class:	3
Packing group:	II
ID number:	UN 1263
Hazard label:	3
Proper shipping name:	PAINT RELATED MATERIAL

Sea transport
IMDG

Hazard class:	3
Packing group:	II
ID number:	UN 1263
Hazard label:	3
Marine pollutant:	NO
Proper shipping name:	PAINT RELATED MATERIAL

Air transport
IATA/ICAO

Hazard class:	3
Packing group:	II
ID number:	UN 1263
Hazard label:	3
Proper shipping name:	PAINT RELATED MATERIAL

15. Regulatory Information

Federal Regulations

Registration status:
Chemical DSL, CA released / listed

NFPA Hazard codes:
Health: 2 Fire: 3 Reactivity: 0 Special:

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2020/07/24

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

END OF DATA SHEET