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SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: NOVAPOL® Polyethylene (Grades that Contain Diatomaceous Earth)

Other means of identification

Synonyms, Trade LDPE, HPLDPE, MDPE Polyethylene resins, ethylene polymers

Names:

SDS number: NOVA-0029B

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Thermoplastic resin extruded into film, sheet or moulded into containers and other shapes.

Uses advised against: All uses other than the identified.

1.3 Details of the supplier of the safety data sheet

Non EU Supplier

Company Name: NOVA Chemicals International (SA)

Address: Avenue de la Gare 14

1700 Fribourg, Switzerland

Telephone: +41-26-426-5757

SDS Information <u>msdsemail@novachem.com</u>

Email:

REACH Only Representative

Company Name: ITS Testing Services UK Ltd

Address: Caleb Brett House, 734 London Road

West Thurrock, Grays, Essex, United Kingdom RM20 3NL

SDS Information ies02.reach@intertek.com

Email:

1.4 Emergency telephone number:

Europe: +44 (0) 1235 239 670 (NCEC) (24 Hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

2.2 Label Elements

Hazard Symbol: No symbol

Signal Word: None

Hazard Statement: None

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Precautionary Statements:

Prevention: P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof [electrical/ventilating/lighting] equipment.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

P284: [In case of inadequate ventilation] wear respiratory protection.

Response: P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting.

P313: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of water/soap. P332+P313: If skin irritation occurs: Get medical advice/attention. P304+P340: IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

Storage: P401: Store in accordance with local/regional/national regulations.

P410: Protect from sunlight.

Disposal: P501: Dispose of contents/container in accordance with

local/regional/national/international regulations.

P502: Refer to manufacturer or supplier for information on recovery or

recycling.

2.3 Other hazards If small particles are generated during further processing, handling or by

other means, may form combustible dust concentrations in air. Spilled product may create a dangerous slipping hazard. The silica, cristobalite is

inextricably bound or coated in the resin.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Cristobalite	0,1 - 0,3%	14464-46-1	238-455-4	Pre- registered**	No data available.	#

^{*} All concentrations are percent by weight.

Classification

Chemical name	Classification	Notes
Cristobalite	Skin Irrit.: 2: H315 Eye Irrit.: 2: H319 Carc.: 1A: H350	-

The full text for all H-statements is displayed in section 16.

CLP: Regulation No. 1272/2008.

Additional Information:

** Cristobalite is a component of the additive, Kieselguhr, soda ash flux-calcined (CAS# 68855-54-9, EC No. 272-489-0) which was pre-registered under REACH by NOVA Chemicals. The silica, cristobalite is inextricably bound or coated in the resin.

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[#] This substance has workplace exposure limit(s).



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SECTION 4: First Aid Measures

4.1 Description of first aid measures

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Get medical advice/attention.

Skin Contact: IF ON SKIN: Wash with plenty of water/soap. If skin irritation occurs: Get

medical advice/attention.

Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Get medical

advice/attention.

Ingestion: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical

advice/attention.

4.2 Most important symptoms and effects, both acute and

delayed:

Thermal burns. Respiratory irritation. Mechanical irritation. The silica, cristobalite is inextricably bound or coated in the resin, which minimizes the

likelihood of exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:

After adequate first aid, no further treatment is required unless symptoms reappear. For more detailed medical emergency support information, call +1-800-561-6682 or +1-403-314-8767 (24 hours, NOVA Chemicals Emergency Response). Burns should be treated as thermal burns. Molten resin will come off as healing occurs; therefore, immediate removal from the skin is not necessary. Treatment should be directed at the control of symptoms and the clinical condition of the patient. No adverse effects due to ingestion are expected. The silica, cristobalite is inextricably bound or coated in the resin, which minimizes the likelihood of exposure.

SECTION 5: Firefighting Measures

General Fire Hazards: Solid resins support combustion but do not meet combustible definition.

Product will burn at high temperatures but is not considered flammable. Under fire conditions, product will readily burn and emit irritating smoke.

Powdered material may form explosive dust-air mixtures.

5.1 Extinguishing media Suitable extinguishing

media:

Water fog or water spray. Small fires: Dry chemical, carbon dioxide (CO2)

or foam.

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture:

Upon heating, polyethylene may emit various oligomers, waxes and oxygenated hydrocarbons as well as carbon dioxide, carbon monoxide and small amounts of other organic vapours (e.g. aldehydes, acrolein).

Inhalation of these decomposition products may be hazardous. Powdered material may form explosive dust-air mixtures. Risk of dust-air explosion is increased if flammable vapours are also present. Static discharge: material can accumulate static charges which may cause an incendiary electrical

discharge.

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5.3 Advice for firefighters Special fire fighting procedures:

Keep upwind. Keep unauthorised personnel away. Move containers from fire area if you can do so without risk. Fight fire from maximum distance or use unmanned holders or monitor nozzles. Apply extinguishing media carefully to avoid creating airborne dust. Water may be used to flood the area. Use water spray to cool fire exposed surfaces and to protect personnel. Avoid inhaling any smoke and combustion materials. Remove and isolate contaminated clothing and shoes. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

Special protective equipment for firefighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate area. Alert stand-by emergency and fire fighting personnel. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

6.2 Environmental Precautions:

Prevent entry into waterways, sewer, basements or confined areas.

6.3 Methods and material for containment and cleaning up:

Wear appropriate personal protective equipment. Do not touch or walk through spilled material. In case of leakage, eliminate all ignition sources. Stop leak if safe to do so. Prevent entry into waterways, sewer, basements or confined areas. Spilled product may create a dangerous slipping hazard. Use appropriate tools to put the spilled solid in an appropriate disposal or recovery container. Recover and reclaim or recycle, if practical. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

6.4 Reference to other sections:

See Section 8 for recommended Personal Protective Equipment and see Section 13 for waste disposal considerations.

SECTION 7: Handling and Storage:

7.1 Precautions for safe handling:

Keep out of reach of children. Keep away from uncontrolled heat and incompatible materials. Ground all material handling and transfer equipment. Wash hands thoroughly after handling. Prevent dust accumulation to minimise explosion hazard. For additional information on control of static and minimizing potential dust and fire hazards, refer to NFPA-654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids, 2013 Edition". Use in a well-ventilated area. Avoid release to the environment. Wear eye protection/protective gloves as needed/wear full face-shield during thermal processing if contact with molten material is possible/wear respirator if dusty. Spilled product may create a dangerous slipping hazard.

7.2 Conditions for safe storage, including any incompatibilities:

Store in accordance with all current regulations and standards. Storage area should be clearly identified, well-illuminated and clear of obstruction. Store in closed, grounded and properly designed vessels. Keep away from uncontrolled heat and incompatible materials. Protect from sunlight. Outdoor storage of product in bags requires protection from ultra-violet sunlight by use of a UV stabilized bag or alternate means. Avoid accumulation of dust by frequent cleaning and suitable construction of storage and handling areas. Keep shovels and vacuum systems readily available for cleanup of loose material. DO NOT enter filled bulk containers and attempt to walk over product, due to risk of slipping and possible suffocation. Use a fall arrest system when working near open bulk containers.

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7.3 Specific end use(s): Thermoplastic resin extruded into film, sheet or moulded into containers

and other shapes.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters **Occupational Exposure Limits**

During dusty conditions ACGIH recommends for Particles (insoluble or poorly soluble) not otherwise specified a TWA of 10 mg/m3 (inhalable

particles), 3 mg/m3 TWA (respirable particles).

France: 10 mg/m3 (VME) (Inhalable fraction.); 5 mg/m3 (VME) (Respirable

fraction.); For Dust.

The silica, cristobalite is inextricably bound or coated in the resin, which minimizes the likelihood of exposure.

Chemical name	Туре	Exposure Limit Values	Source
Cristobalite - Respirable fraction.	VME	0,05 mg/m3	France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in
Traction.			France, INRS ED 984 (07 2012)

8.2 Exposure controls Appropriate Engineering Controls:

Engineering methods to reduce hazardous exposure are preferred controls. Methods include mechanical ventilation (dilution and local exhaust) process or personal enclosure, remote and automated operation, control of process conditions, leak detection and repair systems, and other process modifications. Ensure all exhaust ventilation systems are discharged to outdoors, away from air intakes and ignition sources. Supply sufficient replacement air to make up for air removed by exhaust systems. Administrative (procedure) controls and use of personal protective equipment may also be required. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Use only appropriately classified electrical equipment and powered industrial trucks.

Individual protection measures, such as personal protective equipment

General information: Personal protective equipment (PPE) should not be considered a long-term

solution to exposure control. Employer programs to properly select, fit, maintain and train employees to use equipment must accompany PPE. Consult a competent industrial hygiene resource, the PPE manufacturer's recommendation, and/or applicable regulations to determine hazard

potential and ensure adequate protection.

Eye/face protection: Safety glasses. Wear a face shield when working with molten material.

Skin protection

Hand Protection: Wear gloves to protect against thermal burns.

Other: Wear appropriate clothing to prevent any possibility of skin contact. Wear

> work clothes with long sleeves and pants. Safety footwear with good traction is recommended to help prevent slipping. Static Dissipative (SD)

rated footwear is also recommended.

Respiratory Protection: Appropriate approved air-purifying respirator that meets the requirements of

the European Standard for Respiratory Protection (EN 149) or selfcontained breathing apparatus should be used. Air supplied breathing apparatus must be used when oxygen concentrations are low or if airborne

concentrations exceed the limits of the air-purifying respirators.

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Hygiene measures: Use effective control measures and PPE to maintain worker exposure to

concentrations that are below these limits. Ensure that eyewash stations

and safety showers are in close proximity to work locations.

Environmental Controls: Follow all applicable environmental protection legislation.

SECTION 9: Physical And Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: solid

Form: Pellets or Granular powder

Colour: white / colourless / translucent

Odour: Minimal, Mild
Odour Threshold: No data available.
pH: not applicable

Melting Point: 105 - 125 °C (221 - 257 °F) (Melting Point)

80 - 105 °C (176 - 221 °F) (Softening point)

Boiling Point:not applicableFlash Point:not applicableEvaporation Rate:not applicable

Flammability (solid, gas): May form combustible dust concentrations in air.

Flammability limit - upper (%):

Flammability limit - lower(%):

Vapour pressure:

Not applicable

not applicable

not applicable

not applicable

pensity:

10 - 940 kg/m3

Relative density:

10 - 940 kg/m3

Solubility(ies)

Solubility in Water: Insoluble in water
Solubility (other): No data available.
Partition coefficient (n-octanol/water): not applicable

Autoignition Temperature: 330 - 410 °C (626 - 770 °F)

Decomposition Temperature:> 300 °C (> 572 °F)SADT:No data available.Viscosity:not applicableExplosive properties:No data available.Oxidising Properties:not applicable

SECTION 10: Stability and Reactivity

10.1 Reactivity: Contact with incompatible materials. Sources of ignition. Exposure to heat.

10.2 Chemical Stability: Material is stable under normal conditions.

10.3 Possibility of Hazardous

Reactions:

Hazardous polymerization not likely to occur.

10.4 Conditions to Avoid: Avoid exposing to heat and contact with strong oxidising substances. Avoid

processing material over 300 °C (572 °F).

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10.5 Incompatible Materials: Strong oxidising agents. Organic solvents, ether, gasoline, lubricating oils,

chlorinated hydrocarbons and aromatic hydrocarbons may react with and degrade polyethylene. Powdered material may form explosive dust-air mixtures. Risk of dust-air explosion is increased if flammable vapours are

also present.

10.6 Hazardous Decomposition

Products:

Upon decomposition, polyethylene may emit various oligomers, waxes and oxygenated hydrocarbons as well as carbon dioxide, carbon monoxide and small amounts of other organic vapours (e.g. aldehydes, acrolein).

Inhalation of these decomposition products may be hazardous.

SECTION 11: Toxicological Information

Information on likely routes of exposure

Inhalation: During processing, thermal fumes and inhalation of fine particles may

cause respiratory irritation. The silica, cristobalite is inextricably bound or

coated in the resin, which minimizes the likelihood of exposure.

Skin Contact: During processing, contact with powder or fines may cause mechanical

irritation. Molten material will produce thermal burns. The silica, cristobalite is inextricably bound or coated in the resin, which minimizes the likelihood

of exposure.

Eye contact: During processing, contact with powder or fines may cause mechanical

irritation. Molten material will produce thermal burns. The silica, cristobalite is inextricably bound or coated in the resin, which minimizes the likelihood

of exposure.

Ingestion: Ingestion of this product is not a likely route of exposure.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: LD50: > 5000 mg/kg (estimated)

Dermal

Product: Not classified for acute toxicity based on available data.

Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Cristobalite Irritating. May cause abrasion to skin. The silica, cristobalite is

inextricably bound or coated in the resin, which minimizes the likelihood

of exposure.

Serious Eye Damage/Eye

Irritation:

Product: No data available.

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Specified substance(s)

Cristobalite Irritating. May cause abrasion to cornea. The silica, cristobalite is

inextricably bound or coated in the resin, which minimizes the likelihood of

exposure.

Respiratory or Skin Sensitisation:

Product: No data available.

Germ Cell Mutagenicity

In vitro

Product: There are no known or reported genetic effects.

In vivo

Product: There are no known or reported genetic effects.

Carcinogenicity

Product: Not classified

Reproductive toxicity

Product: There are no known or reported reproductive effects.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Cristobalite Lungs, Respiratory system - The silica, cristobalite is inextricably bound or

coated in the resin, which minimizes the likelihood of exposure.

Aspiration Hazard

Product: Not classified.

SECTION 12: Ecological Information

General information: NOVAPOL® resins are expected to be inert in the environment. They float

on water and are not biodegradable. They are not expected to

bioconcentrate (accumulate in the food chain) due to their high molecular weight. NOVAPOL® pellets are not expected to be toxic if ingested but may

represent a choking hazard if ingested by waterfowl or aquatic life.

12.1 Toxicity

Acute toxicity

Fish

Product: LC 50 (96 h): > 100 mg/l

Aquatic Invertebrates

Product: EC 50 (Daphnia magna, 48 h): > 100 mg/l

Toxicity to aquatic plants

Product: EC 50 (72 h): > 100 mg/l

Chronic toxicity

Fish

Product: NOEC : > 100 mg/l

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Aquatic Invertebrates

Product: NOEC : > 100 mg/l

Toxicity to aquatic plants

Product: NOEC : > 100 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: Not readily degradable. Under optimal oxidation conditions, >99% of

polyethylene will remain intact after exposure to microbial actions. Product will slowly change (embrittle) in the presence of sunlight, but will not fully breakdown. Product buried in landfill has been found to be stable over time.

No toxic degradation products are known to be produced.

BOD/COD Ratio

Product No data available.

12.3 Bioaccumulative Potential

Product: Pellets may accumulate in the digestive systems of birds and aquatic life,

causing injury and possible death due to starvation.

12.4 Mobility in Soil:Biologically persistent. This product has not been found to migrate through

soils.

Known or predicted distribution to environmental compartments

Cristobalite No data available.

12.5 Results of PBT and vPvB

assessment:

PBT assessment does not apply.

Cristobalite No data available.

12.6 Other Adverse Effects: Pellets are persistent in aquatic and terrestrial systems.

12.7 Additional Information: No data available.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Disposal methods: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Preferred disposal methods for polyethylene in order of preference are: 1) clean and reuse if possible, 2) recover and resell through plastic recyclers or resin brokers, 3) incinerate with waste heat recovery and 4) landfill. DO NOT ATTEMPT TO DISPOSE OF BY UNCONTROLLED INCINERATION. Open burning of plastics at

landfills should not be undertaken.

SECTION 14: Transport Information

IMDG

Not regulated.

IATA

Not regulated.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: not applicable

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 689/2008 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006 REACH Annex XIV Substance subject to authorisation, as amended: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work: none

15.2 Chemical safety assessment:

Not required. This product complies with the registration requirements of the REACH Regulation (EC) No 1907/2006. The component substances have been duly preregistered, registered or are exempt from registration. This covers those EU importers included in NOVA Chemicals' Only Representative scheme.

Inventory status

European Chemical Inventories (EINECS,

On or in compliance with the inventory

ELINCS or NLP):

SECTION 16: Other Information

Revision Information: 20.02.2018: New SDS

References

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

Key literature references and

sources for data:

Available on request.

Wording of the H-statements in sections 2 and 3

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H350 May cause cancer.

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Training information:

Suitable information on safety in handling, storage and processing the product should be given to employees based on the existing information.

Other information:

Exposure to the Hazardous Combustion and Decomposition Products as described in the SDS, Sections 5 and 10, may be linked with various acute and chronic health effects. These effects include irritation of eyes and upper respiratory tract primarily from the aldehydes, breathing difficulties, systemic toxicity such as liver, kidney, and central nervous system effects.

NOVA Chemicals has monitored worker exposures to emissions during commercial-scale processing of polyethylene. Concentrations of hazardous decomposition products were determined to be well below established exposure limits in the workplace. "Quantitation of Employee Exposure to Emission Products Generated By Commercial-Scale Processing of Polyethylene" is available in the Am. Ind. Hyg. Assoc. J. 56:809-814 (1995) and "Quantification of Emission Compounds Generated During Commercial-Scale Processing of Advanced SCLAIRTECH™ Polyethylene" is available in the Journal of Plastic Film & Sheeting Volume 26 Issue 2, April 2010.

For information on ventilation considerations for the control of volatile air contaminants from polyethylene, please request a copy of NOVA Chemicals' publication, "Ventilation Guidelines for Heat-Processing Polyethylene Resins".

For additional information on unloading hopper cars containing plastic resins, refer to NOVA Chemicals' publication, "Hopper Car Unloading Guide".

For information on processing properties, selection of NOVAPOL resin grades, refer to the NOVAPOL Product Data Sheets available on our web site, under Products & Applications: http://www.novachemicals.com.

For additional information on preventing pellet loss, refer to published plastic industry publications and resources under 'Operation Clean Sweep'; now downloadable from the web at http://www.opcleansweep.org/.

Polyethylene fines and dust particles are listed as a Class I combustible dust by the National Fire Protection Association (see NFPA-68, Table F.1 (e)). For additional information on control of static and minimizing potential dust and fire hazards, refer to NFPA-654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids, 2013 Edition".

Explosivity testing was done on one NOVAPOL® LLDPE, one LDPE and one HDPE resins with Pmax = 4.8-5.7 bar, Kst = 12-17 (bar m/s) and Minimum Ignition Energy (MIE) = 1000-10,000; dust explosion class = St 1; this data was obtained for polyethylene with a final particle size of 100% <250 um and moisture content between 0 and 0.2%. Similar results are expected for the remaining NOVAPOL® polyethylene resin grades.

For NOVAPOL resin grade specific information including food contact compliance statements, please contact your sales representative or refer to NOVA Chemicals' polyethylene Product Data Sheets.

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Key/Legend:

ACGIH = American Conference of Governmental Industrial Hygienists; ADR = Transport of Dangerous Goods by Road; ADR/RID = European Agreement of Dangerous Goods by Road/Rail: CAS = Chemical Abstracts Service: DFG = Deutsche Forschungsgemeinschaft; EC50 = Effective Concentration 50%; EEC = European Economic Community; EU = European Union; GHS = Globally Harmonized System for the Classification and Labelling of Chemicals; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; ICAO = International Civil Aviation Organization; IMDG = International Maritime Dangerous Goods; IMO = International Maritime Organization; Kow = Octanol/water partition coefficient; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; LEL = Lower Explosive Limit; LFL = Lower Flammable Limit; LLV = Level Limit Ceiling Limit (Sweden dust); MAK = Maximum Concentration Value in the Workplace: NCEC = National Chemical Emergency Centre: NFPA = National Fire Protection Association; NTP = National Toxicology Program; OEL = Occupational Exposure Limit; PNOC = Particulates Not Otherwise Classified; PPE = Personal Protective Equipment; REACH = Registration, Evaluation, Authorisation and Restriction of Chemical Substances; RID = Transport of Dangerous Goods by Rail; SADT = Self Accelerating Decomposition Temperature; SCBA = Self Contained Breathing Apparatus; SDS = Safety Data Sheet: STEL = Short Term Exposure Limit: TLV = Threshold Limit Value: TWA = Time Weighted Average; UEL = Upper Explosive Limit; UFL = Upper Flammable Limit; VLA-ED = Valor límite Ambiental de Exposición Diaria (Environmental Exposure Daily Limit Value); VME = valeur limite d'exposition (Occupational Exposure Limits)

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