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Trade name         4-Propion/toxybenzaldehyde           Biock number:         Markazar Cable A Co.KG         E-nait gostfilmathur com www.afs-chencel.com           Propion/toxybenzaldehyde         Deriversite         Product safety descriment:         E-nait gostfilmathur com www.afs-chencel.com           21 Azzard Identification         Harard designation:         Product safety descriment:         E-nait gostfilmathur com www.afs-chencel.com           21 Azzard Identification         Harard designation:         Product safety descriment:         E-nait gostfilmathur com www.afs-chencel.com           21 Azzard Identification         Harard         Setter interview of the safety descriment.         E-nait gostfilmathur com www.afs-chencel.com           21 Azzard Identification         Rescel Initiating to gastfilmathur communication and safety descriment.         E-nait gostfilmathur com www.afs-chencel.com         E-nait gostfilmathur com www.afs-chencel.com           21 Azzard Identification         Rescel Initiation         E-nait Gostfilmathur com espectation         E-nait Gostfilmathur com espectation         E-nait Gostfilmathur com espectation           21 Azzard Identification         Supply fresh air. If required, provide atfinical respirator. Keep patient warm. Consult doctor if symptoms Setter Initiation and expectation and expectation.         E-nait Gostfilmathur com espectation         E-nait Gostfilmathur com espectation         E-nait Gostfilmathur com espectation         E-nait Gostfilmathur com espectation         E-na		
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Emergency information:         Gilliodia University / Position (Edge) (Manz Water)           2 Hazard signalitication         Hazard signalitication           Hazard signalitication:         Internation pertaining to particular danger in the second signality of th		Benzstrasse 3 E-mail: gcat@matthey.com D-76185 Karlsruhe / Germany www.alfa-chemcat.com
2 Hazards identification       Hazard designation:       Initian         Presentation to particular dangers       Presention:       Presention:       Presention:         Presention:       Presention:       Presention:       Presention:       Presention:         Presention:       Presention:       Presention:       Presention:       Presention:       Presention:         Presention:       Presenti	Informing department: Emergency information:	Giftnotruf Universität Mainz / Poison Information Center Mainz
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Presention:       P39 - Causes serious are inflation.         Presention:       P30 - P32 means and the inflation.         Presention:       P30 + P32 means and the inflation occurs (set medical advice).         P30 + P32 means and inflation occurs (set medical advice).       P30 + P31 means and inflation occurs (set medical advice).         S composition/information on ingredients:       - A Propionyloxybenzaldeinyde (CAS# 50282 - 48-1)         Chemical characterization:       - 4 Propionyloxybenzaldeinyde (CAS# 50282 - 48-1)         A first aid measures       - A measures         After inhalation       Supply fresh aif. If required, provide atflicial respiration. Keep patient warm. Consult doctor.         Set in medical advice.       - Set inmedical advice.         After system       Set inmediate medical advice.         After system       - Set inmediate medical advice.         Solution information in advice advice.       - Set inmediate medical advice.         After system       - Set inmediate medical advice.         After system       - Set inmediate medical advice.         Solution information in advice.       - Set inmediate medical advice.         Protection capital baser of set information advice.       - Set information advice.         After system       - Set information advice advice.         Protection capital baser of set information advice advice.       - Set information a		Varning Varning
Prevention:         P280 Wear protective glowsproads/exploration/information on ingradiants/information ingradiants/informat		
Response:       P302+P322 P328 IF ON SMER, Wash with plering of seap and water, minutes. Remove contact lenses, if P302+P327 P31 particular seems and party of a contrained manage of the particular seems and party of a contrained manage of the particular seems and party of a contrained manage of the particular seems and party of a contrained manage of the particular seems and party of a contrained manage of the particular seems and party of a contrained manage of the particular seems and party of the party of the party of the party of the particular seems and party of the party of t	Prevention.	P280 Wear protective gloves/protective clothing/eve protection/face protection.
P321 - Discretion       P322 - P323       P324 - P323		P302+P352 IF ON SKIN: Wash with plenty of soap and water.
2 Composition/Information on Ingredients           Chemposition/Information on Ingredients           Chemposition/Information on Ingredients           Chemposition/Information on Ingredients           Chemposition/Information on Ingredients           Person-Information           After stain contact           Scipply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor.           Statubile scitzinguishing agents           Special hazards           Special hazards           Statubile scitzinguishing agents           Special hazards           Special hazards           Special hazards           Accidental release measures           Person-related safety proculutions:           Wear protective equipment:           Wear protective equipment:           Measures for environmental protection:           Measur		P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, in present and easy to do. Continue rinsing.
2 Composition/Information on Ingredients           Chemposition/Information on Ingredients           Chemposition/Information on Ingredients           Chemposition/Information on Ingredients           Chemposition/Information on Ingredients           Person-Information           After stain contact           Scipply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor.           Statubile scitzinguishing agents           Special hazards           Special hazards           Statubile scitzinguishing agents           Special hazards           Special hazards           Special hazards           Accidental release measures           Person-related safety proculutions:           Wear protective equipment:           Wear protective equipment:           Measures for environmental protection:           Measur		P321 Specific treatment (see on this label).
3 Composition/information on ingredients         Chemical characterization:         Designation: (CAS#)       4-Propionyloxybenzaldehyde (CAS# 50262-48-1)         4 First aid measures       Atter inhalation         After skin contact       Supply fresh air. If required, provide antificial respiration. Keep patient warm. Consult doctor if symptoms persist.         After skin contact       Seek immediate medical advice.         After skin contact       Rines opened eye for several immus under advice.         Strabub oxtinguishing agents       CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.         Special haard is caused by the material, its       CO2, extinguishing appenaus.         Protective equipment:       CO2, extinguishing appenaus.         Protective equipment:       CO2, extinguishing appenaus.         Measures for environmental protections:       Wear protective equipment. Keep uprotected persons away.         Partor-fieldet afset precautions:       Wear protective equipment. Keep uprotected persons away.         Measures for environmental protections:       Wear protective equipment.         Additional information:       See section 8 for information about storage in a concompany third pass in third appenaus.         Protective equipment to boot with liquic date in tightly dead containers.       No appenaus.         Measures for environmental protection:       Storage seation 8 f		P362 Take off contaminated clothing and wash before reuse.
Chemical characterization:         4-Propionyloxybenzaldehyde (CAS# 50262-48-1)           4 First aid measures         Supply frish air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms break in the set in the attain and scop and rines thoroughly.           After set contact         Instantly weah with water and scop and rines thoroughly.           After set contact         Instantly weah with water and scop and rines thoroughly.           After set contact         Ensure of several multics and performance in the set of several multics and scop and running water. Then consult doctor.           5 Fire fighting measures         CO2, extinguishing goents         CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.           Protective equipment:         CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.           Carbon monoxide and carbon dicxide         Water self-contained freatiling apparatus.           Wear self-contained treating apparatus.         Wear protective equipment. Keep unprotected persons away.           Brauer adoctate verification         Brauer adoctate verification         Brauer adoctate verification           Additional information         See Section 15 for information on set handling.         Keep Section 15 for information on set handling.           See Section 15 for information on set adoctate verification equipment.         See Section 15 for information ased to the onotipole.	2 Composition/information on ingredient	
Designation: (CAS#)         4-Proponyloxybenzaldehyde (CAS# 50262-48-1)           4 First aid measures         Atter inhalation         Surply firsh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms proponyloxybenzaldehyde (CAS# 50262-48-1)           After skin contact         Instantiv wash with water and scap and rinse thoroughly.           State with water and scap and rinse thoroughly.         Seek. Immediate medical advice.           5 Fire fighting measures         CO2. extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.           5 Protective equipment:         CO2. extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.           6 Accidental release measures         CO2. extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.           Measures for environmental protection:         De not allow material to be released to the environment with or poper governmental permits. Abgoint with audult protective equipment.           Kees protective equipment:         Wear protective equipment. Keep unprotected persons away. Ensure adequate verifiation:           Measures for environmental protection:         Do not allow material to be released to the environment with protection equipment.           Kees protective equipment:         Wear protective equipment. Keep unprotection equipment.           Kees colors 1 for information on as the handling.         Handling information about storage </td <th></th> <td>S</td>		S
After inhalation       Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.         After skin contact       Seek immediate medical advice.         Seek immediate medical advice.       Seek immediate medical advice.         Seek immediate medical advice.       Seek immediate medical advice.         State of the several minutes under running water. Then consult doctor.       Seek immediate medical advice.         State of the several minutes under running water. Then consult doctor.       Seek immediate medical advice.         State of the several minutes under running water. Then consult doctor.       Seek immediate medical advice.         State of the several minutes under running water. Then consult doctor.       Seek immediate medical advice.         State of the several minutes under running water. Then consult doctor.       Seek immediate medical advice.         Port of the several medication of flue gases:       Con be released in case of free: Carbo monorade and carbon dioxide.         Port of the desage measures       Wear protective equipment. Keep unprotected persons away.         Ensure adeque ventilation.       Ensure adeque ventilation.         Measures for environment without proper governmental permits.       Fuser adeque ventilation.         Additional information in advit protection.       See Section 7 for information on safe handling.         Information about protection against explosions and fires:       Se	Designation: (CAS#)	4-Propionyloxybenzaldehyde (CAS# 50262-48-1)
After inhalation       Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.         After skin contact       Seek immediate medical advice.         Seek immediate medical advice.       Seek immediate medical advice.         Seek immediate medical advice.       Seek immediate medical advice.         State of the several minutes under running water. Then consult doctor.       Seek immediate medical advice.         State of the several minutes under running water. Then consult doctor.       Seek immediate medical advice.         State of the several minutes under running water. Then consult doctor.       Seek immediate medical advice.         State of the several minutes under running water. Then consult doctor.       Seek immediate medical advice.         State of the several minutes under running water. Then consult doctor.       Seek immediate medical advice.         Port of the several medication of flue gases:       Con be released in case of free: Carbo monorade and carbon dioxide.         Port of the desage measures       Wear protective equipment. Keep unprotected persons away.         Ensure adeque ventilation.       Ensure adeque ventilation.         Measures for environment without proper governmental permits.       Fuser adeque ventilation.         Additional information in advit protection.       See Section 7 for information on safe handling.         Information about protection against explosions and fires:       Se	A Eirst aid massures	
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After eye contact       Instantity wash with water and soap and rinse thoroughly.         After eye contact       Fire fighting measures         Suitable extinguishing agents       Special hazards caused by the material, its         Special hazards caused by the material, its       CO2, extinguishing agents         Protective equipment:       CO2, extinguishing agents         Protective equipment:       Commonoade and carbon dicxide         Can be released in case of fire:       Can be released in case of fire:         Can be released in case of fire:       Can be released in case of fire:         Can be released in case of fire:       Can be released in case of fire:         Can be released in case of fire:       Can be released in case of fire:         Can be released in case of fire:       Can be released to be environment without proper governmental permits.         Measures for environmental protection:       Mear protective equipment. Keep unprotected persons away.         Firsure adequate verifialion.       Do not allow material to be released to the environment without proper governmental permits.         Additional information:       See Section 16 to information on safe handling.         Handling normation for safe handling:       Handle under dry protective gas.         Information about storage       Keep containers tighty sealed.         Store and thres:       Store incool, dry black in tighty closeed containe		persist.
Atter eye contact Atter swallowing         Seek immediate medical advice.         Seek immediate medical advice.           5 Fire fighting measures         CO2, extinguishing agents Sproducts of combustion or nuclease of tire: Carbon monoxide and carbon dioxide Wear self-contained breathing apparatus.         CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Carbon monoxide and carbon dioxide Wear self-contained breathing apparatus.           6 Accidental release measures         Protective equipment:         Wear reliferont dioxide Wear self-contained breathing apparatus.           6 Accidental release measures         Wear reliferont dioxide dioxide dioxide Wear self-contained breathing apparatus.           6 Accidental release measures         Wear reliferont dioxide	After skin contact	
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Suitable extinguishing agents Special hazards caused by the material, the products of combustion of flue gases:         C22, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.           Protective equipment:         C22, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.           6 Accidental release measures         Person-related safety precautions: Wear rull protective equipment. Keep unprotected persons away. Ensure adequate ventilation Measures for environmental protection: Measures for eleming/collecting: Additional information:         Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits. Absorb with liquid-binding material (sand, diatomic, acd binders, unversal binders, sawdust). Ensure adequate ventilation See section 3 for information on personal protection equipment. See section 3 for information on disposal.           7 Handling and storage Handling Information about protection against explosions and fires: Storage Requirements to be met by storerooms and containers: biorage facility: Components with storage in one common storage facility: Components with critical values that require motoring a the workplace.           8 Exposure controls and personal protection technical systems: Conditions: Components with critical values that require montoring a the workplace: Additional information about design of technical systems: Components with critical values that require montoring a the workplace: Additional information.         Properly operating chemical furme hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Not data           Personal prote		Rinse opened eye for several minutes under running water. Then consult doctor. Seek immediate medical advice.
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Protective equipment:         Wear self-contained breathing apparatus. Wear full protective suit.           6 Accidental release measures         Person-related safety precautions:         Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits. Absorb with liquid-binding material (sand, diatomite, add binders, universal binders, sawdust). Ensure adequate ventilation. See Section 7 to runormation on safe handling See Section 13 for information on partial protection equipment. See Section 14 for information on disposal.           7 Handling and storage Handling Information about storage in concurse against explosions and fires: Storage facility:         Handle under dry protective gas. Storage against explosions and fires: Storage facility:           Storage facility:         Further information about storage conditions:         No special requirements. Storage facility: Store under dry inert gas. Storage facility: Store under dry inert gas. Storage facility: Store under dry inert gas. Store in cool, dry conditions in well sealed containers. This product is air sensitive.           8 Exposure controls and personal protection Additional information about design of technical systems:         Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. No data	products of combustion or flue gases:	Carbon monovide and carbon diovide
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Person-related safety precautions:       Wear protective equipment. Keep unprotected persons away.         Measures for environmental protection:       Measures for cleaning/collecting:         Additional information:       Section 7 for information on safe handling         Finding and storage       Handling         Handling       Handling:         Information for safe handling:       Handle under dry protective gas.         Keep containers tightly sealed.       Storage of the control same of equipment.         Storage facility:       Storage of the control same of equipment.         Storage facility:       No special requirements.         Storage facility:       Storage of the control same of equipment.         Storage facility:       No special requirements.         Storage facility:       Storage facility:         Further information about storage for end of the selection of the selection singe in the optical gagents.       Store away from oxidizing agents.         Storage conditions:       Store under dry inert gas.       Store and from ation singe gagents.         Storage facility:       Store away from oxidizing agents.       Store away from oxidizing agents.         Store away from information about storage for the optical requirements.       Store away from solid selection sin well sealed containers.         Brone in cool, dry conditions in well sealed containers.       The sensitive.       <	6 Accidental release measures	
Measures for environmental protection:       Ensure adequate ventilation         Measures for cleaning/collecting:       Additional information:         Additional information:       See Section 7 for information on safe handling         See Section 7 for information on personal protection equipment.       See Section 7 for information on disposal.         7 Handling       Handling         Information for safe handling:       Handle under dry protective gas.         Keep containers tightly sealed.       Store in cool, dry place in tightly closed containers.         Storage       Storage in one common         Requirements to be met by storerooms and protection adout storage       No special requirements.         Store away from air.       Store oxidizing agents.         Store on cool, dry place in tightly sealed.       Store away from air.         Store away from air.       Store away from air.         Store away from air.       Store away from air.         Store away from air.       Store away from air.         Store in cool, dry conditions in well sealed containers.       Store away from air.         Store away from oxidizing agents.       Store in cool, dry conditions in well sealed containers.         Store in cool, dry conditions in well sealed containers.       Store in cool, dry conditions in well sealed containers.         Additional information about design of technical systems:		Wear protective equipment. Keep unprotected persons away.
Measures for cleaning/collecting: Additional information:       Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. See Section 7 for information on personal protection equipment. See Section 13 for information on personal protection equipment. See Section 13 for information on disposal.         7 Handling and storage Handling Information for safe handling:       Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly (losed containers. Ensure good ventilation/exhaustion at the workplace.         Information about protection against explosions and fires:       Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly (losed containers. Ensure good ventilation/exhaustion at the workplace.         Storage Requirements to be met by storerooms and Information about storage in one common storage facility:       No special requirements. Store away from air. Store away from air. Store away from air. Store away from air. Store avay from air. Store in cool, dry conditions in well sealed containers. This product is air sensitive.         8 Exposure controls and personal protection Additional information:       Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.         Components with critical values that require monitoring at the workplace:       No data         Personal protective equipment General protective equipment General protective and hygienic measures       The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food.		Ensure adequate ventilation
Additional information:       Ensure adequate ventilation. See Section 7 for information on safe handling See section 13 for information on safe handling See section 13 for information on disposal.         7 Handling and storage Handling Information for safe handling:       Handle under dry protective gas. Keep containers lightly sealed. Store in cool, dry place in lightly closed containers. Ensure good ventilation(rehaustion at the workplace.         Information about protection against explosions and fires:       Handle under dry protective gas. Keep containers lightly sealed. Store are protectilation(rehaustion at the workplace.         Storage Requirements to be met by storerooms and containers: Information about storage in one common storage facility:       No special requirements. Store away from air. Store away from air. Store away from oxidizing agents. Store avay from oxidizing agents. Store in cool, dry conditions in well sealed containers. This product is air sensitive.         8 Exposure controls and personal protection Additional information about design of technical systems:       Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.         Components with critical values that require monitoring at the workplace:       No trequired. Not required. No data         Personal protective equipment General protective equipment General protective and hygienic measures       The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Keep away from foodstuffs, beverages and food.	Measures for environmental protection: Measures for cleaning/collecting:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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GB —		Instantly remove any soiled and impregnated garments. (Contd. on page 2)

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	Nevision: 21.00.2010
Trade name <b>4-Propionyloxybenzaldehyd</b>	le
Breathing equipment: Protection of hands: Material of gloves	(Contd. of page 1) Wash hands during breaks and at the end of the work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Penetration time of glove material Eye protection:	Impervious gloves Not determined Safety glasses Face protection
Body protection:	Protective work clothing.
9 Physical and chemical properties:	
General Information	
Form: Colour:	Liquid Colourless Pale yellow
Smell: Change in condition	Not determined
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 132-136°C (0.5 mmHg) Not determined
Flash point:	> 110°C
Ignition temperature:	Not determined
Decomposition temperature: Danger of explosion:	Not determined Product is not explosive.
Critical values for explosion: Lower:	Not determined
Upper:	Not determined Not determined
Steam pressure: Density	Not determined
Solubility in / Miscibility with Water:	Not miscible or difficult to mix
10 Stability and reactivity Thermal decomposition / conditions to be avoided: Materials to be avoided: Dangerous reactions: Dangerous products of decomposition:	No decomposition if used and stored according to specifications. Air Oxidizing agents No dangerous reactions known Carbon monoxide and carbon dioxide
11 Toxicological information Acute toxicity: Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information:	Irritant for skin and mucous membranes. Irritant effect. No sensitizing effect known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
12 Ecological information:	
Additional ecological information: General notes:	Generally not hazardous for water. Do not allow material to be released to the environment without proper governmental permits.
13 Disposal considerations	
Product: Recommendation	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.
14 Transport information	
Land transport ADR/RID and GGVS/GGVE ( ADR/RID-GGVS/E Class:	cross-border/domestic) None
Maritime transport IMDG/GGVSea: IMDG/GGVSea Class: Marine pollutant:	None No
Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:	None
Transport/Additional information:	Not dangerous according to the above specifications.
15 Regulatory information Designation according to EC guidelines: Code letter and hazard designation of product:	Xi Irritant
Risk phrases:	36/38 Irritating to eyes and skin. GB

## Safety Data Sheet according to 1907/2006/EC, Article 31

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(Contd. of page 2)		
<ul> <li>23 Do not breathe fumes.</li> <li>26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</li> <li>37 Wear suitable gloves.</li> </ul>		
Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.		
Generally not hazardous for water.		
16 Other information: Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.		
Department issuing data specification sheet: Health, Safety and Environmental Department. Contact: Zachariah Holt		
Zachariah Holt ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMD6: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) GB		