


Supplier	
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Product Specifications	
Feed Stuff	Maize Distillers (GMO)
Trading Name	Maize DDG's/ Maize Distillers/ Corn DDG's/ Dried Distillers Grains/ Distillers grains and soluble's
Image- Typical Image of Maize Distillers*	
	
** (product may vary in appearance depending on suppliers)	
Product Description	Product obtained when producing alcohol by distilling grain mash of cereals and/or other starchy and sugar containing products. Corn distillers are the main by-product of the distillation of alcohol from maize grain.
Specification*	<ul style="list-style-type: none"> <li>Protein ~25-27%</li> <li>Oil ~10-12%</li> <li>Fibre ~6-8 %</li> </ul> (*Values are not contractual)
General Use	Maize distillers have a high starch value and are used to feed a variety of animals. Maize is a good source of slow release easily digestible starch. Maize distillery by-products are common ingredients for ruminants. In a forage and concentrated diet, DDGS can likely replace most, if not all of the protein supplements, such as soybean meal and a significant amount of the grain.
Packaging & Transport	Bulk
Labelling	According to EU legislation 767/2009
Storage	Dry, cool and dark storage.
Legal Demands	The product complies with all applicable legislation. Most important elements are: <ul style="list-style-type: none"> <li>Animal Feed Legislation</li> <li>Directive 2002/32/EG on undesirable substances in animal feed.</li> <li>Regulation 396/2005 on maximum residue levels of pesticides in or on food or feed</li> <li>Regulation (EC) No. 1831/2003 concerning animal feed hygiene.</li> <li>Commission Recommendation- EC 2006/576/EC</li> <li>Where applicable The Animal Feed (Amendment) (EU Exit) Regulations Statutory Instruments (Scotland, England, Wales and Northern Ireland)</li> <li>compliance with all EU-regulations with respect to GMO events and food/feed safety</li> <li>Where applicable The Feed (Sampling and Analysis and Specified Undesirable substances) Regulations 2010. (SI for Scotland 354, Northern Ireland 323, Wales 2287 &amp; England 2280)</li> </ul>
Undesirable substances	The maximum permissible contents of undesirable substances in feedstuffs are established according to the following regulations and standards, with values recalculated to a moisture content of 12%: <ul style="list-style-type: none"> <li>Directive 2002/32/EC on undesirable substances in animal feed</li> <li>GMP+FSA, Appendix 1 (Product standards, including residue standards)</li> <li>Regulation (EC) No. 396/2005 on maximum residue levels of pesticides in or on food and feed</li> </ul>
Specific analysis and standard tolerances	
Salmonella	Absent in 25g
Appearance	Yellow/orange whole grain.

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Country of origin	Brazil, USA & Canada
<b>Health Information</b>	
Inhalation	When handled, maize meal, can give off dust. Prolonged inhalation of excessive amounts of nuisance dust may affect the respiratory system. Prolonged or repeated exposure may result in lung damage.
Ingestion	No known hazards.
Eye Contact	Contact can cause irritation.
Skin Contact	Dust can cause irritation or sensitivity to skin.
Toxicological Information	Non-toxic product
Occupational exposure limits	None available
<b>Emergency first aid procedures</b>	
Ingestion	Do not induce vomiting. Give person water to drink. If gastro-intestinal symptoms start to develop seek medical help.
Eye Contact	In the event of eye contact irrigate with water for at least 15 minutes. Exposure may result in mild irritation. Seek medical attention if irritation Occurs.
Skin Contact	Wash effected area with soap and water. Seek medical attention if irritation develops.
Inhalation	Remove individual to fresh air. Seek medical attention if symptoms develop.
<b>Physical properties</b>	
Physical state	Solid
Appearance	Yellow/Orange whole grain, may be ground, flaked, rolled or pelleted.
Odor	Maize has a slight, pleasant odor. Excessively moist maize has a sour odor.
Flammability limits	Smolders when directly heated in flame.
<b>Fire &amp; Explosion hazard</b>	
Flash point	>60°C
Flammability	Due to its oil content, particularly in freshly harvested maize, the product has a strong tendency to become rancid and undergo self-heating. If the cargo temperature rises above <b>40°C</b> , immediate action must be taken to reduce it. Should temperatures exceed <b>60°C</b> , the risk of fire increases significantly, and appropriate measures must be implemented without delay. Damage caused by self-heating can result in substantial product depreciation.
Extinguishing media	Foam or carbon dioxide
Explosibility	ST1 (ST2)
<b>Special firefighting procedures &amp; precautions</b>	
Combustible when subjected to heat. Suitable extinguishing agents are dry, carbon dioxide and foam. Fire fighters should use self-contained breathing apparatus to avoid exposure to smoke and fumes. Adequate extraction facilities should be provided in all areas subject to dust. <b>Water must not be used as increases the potential for heating and self-combustion</b>	
<b>Reactivity</b>	
Stability	Stable
Hazardous Polymerization	Will not occur.
Material to avoid	Moisture- Care should be taken to ensure that the surfaces are not cooled too much, to avoid the formation of damp boundary layers beneath the cargo surface.
Hazardous decomposition products	Combustion produces CO <sub>2</sub> , CO & thick smoke.
<b>Personal protection / Exposure control</b>	
Respiratory Protection	Always ensure the work area has adequate ventilation. In case of dust formation, wear appropriate respiratory protective equipment determined and fitted by an expert.
Skin protection	Gloves and overalls should be worn when handling.
Eye Protection	Always wear approved safety glasses when working. Full face protective shields can be worn to avoid contact with face. Wash stations should be provided.
Footwear	Appropriate footwear as specified by workplace requirements.
<b>Environmental Protection</b>	
Environmental precautions	Avoid excessive dust emissions.

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Spill or leak precautions	No special precautions. Normal sweeping of small spillages and collection is appropriate. For larger spillages mechanical scooping may be necessary (use only diesel vehicles).
Waste disposal	Dispose spilled or contaminated material to landfill. Do not release into drains or other measures.
<b>This is for information purposes only and is not contractual</b>	