Safety Data Sheet
OIL SPLITTER

SECTION 1 – PRODUCT IDENTIFICATION

PRODUCT NAME	OIL SPLITTER
SYNONYMS	Product is a mixture: No synonyms are available
PRODUCT USE	Alkaline Material
SUPPLIER	DYNACCO INC.
SUPPLIER'S ADDRESS	PO BOX 27, MONROE, WA 98272 (360) 794-8974
EMERGENCY RESPONSE PHONE	PERS: 1-800-633-8253

SECTION 2 – HAZARD IDENTIFICATION

GHS – US CLASSIFICATION	:	H290	Metal corrosion Category 1
	:	H314	Skin Corrosion Category 1B
	:	H318	Serious Eye Damage Category 1B
	:	H412	Aquatic Acute Category 3

HAZARD PICTOGRAMS :

SIGNAL WORD	:	**DANGER**	
GHS LABEL ELEMENTS	:	The product is classified and labeled according to the Globally Harmonized System (GHS).	
GHS PHYSICAL HAZARDS	:	H290	May be corrosive to metals.
	:	H314	Causes severe skin burns and eye damage.
	:	H318	Causes serious eye damage.
	:	H412	Harmful to aquatic life with long lasting effects.
GHS PRECAUTIONARY HAZARDS	:	P101	If medical advice is needed, have product container or label at hand.
		P102	Keep out of reach of children.
		P103	Read label before use.
		P260	Do not breathe dust/fume/gas/mist/vapors/spray.
		P264	Wash skin and contaminated clothing thoroughly after handling.
		P270	Do not eat, drink or smoke when using this product.
		P280	Wear suitable protective gloves/protective clothing/eye protection/face protection.
		P301+P330 +P331	IF SWALLOWED. Rinse mouth. Do NOT induce vomiting.
		P303+P361 +P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	:	P305+P351 +P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	:	P305+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position.
	:	P310	Immediately call a POISON CENTER or doctor/physician.
	:	P330	Rinse mouth if ingested.
	:	P405	Store locked up.
	:	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
CLASSIFICATION SYSTEM:	:	NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.	
NFPA ratings (scale 0-4):	:	Health = 3, Fire = 0, Reactivity = 0	
HMIS ratings (scale 0-5):	:	Health = 3, Fire = 0, Reactivity = 0	

SECTION 3 – COMPOSITON/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION : Mixtures
DESCRIPTION : Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Potassium Hydroxide	1-5	1310-58-3	215-181-3	Metal Corr. Cat 1, Skin Corr Cat 1B Eye Dam Cat 1, Acute Tox (Oral) Cat 4
Sodium Metasilicate	1-5	6834-92-0	229-912-9	Skin Corr: Cat 1C, Eye Corr. Cat 1
Ethylenediaminet Tetraacetate NaSalt	0.1-1	64-02-8	200-573-9	Eye Dam Cat 1, Acute Tox (Oral) Cat4 Acute Aquatic Cat 2, Acute Tox (Inhal) Cat4
b-Alanine, N-(2-carboxyethyl)-N-[3-(decyloxy)propyl]-,monosodium salt	1-5	64972-19-6	265-295-2	Not Found

Corr. = Corrosion, Dam. = Damage, Tox = Toxic, Inhal = Inhalation, Cat = Category.

SECTION 4 – FIRST AID MEASURES

EYE CONTACT : Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediate call a POISON CENTER or doctor/physician.

SKIN CONTACT : Remove contaminated clothing and shoes. Wash affected skin area with water for at least 15 minutes. Delayed skin damage is possible if product is not completely washed off. Get immediate medical attention. Wash contaminated clothing before reuse.

SWALLOWING (INGESTION) : If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Immediate call a POISON CENTER or doctor/physician.

INHALATION : When symptoms occur, go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor/physician.

GENERAL MEASURES : Never give anything by mouth to an unconscious person. Rescue personnel must wear appropriate protective equipment during removal of victims from contaminated areas. Treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Dry chemical, foam, water or carbon dioxide

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTER : In the event of a fire, wear a NIOSH (USA) or CEN (EU) approved, positive pressure, self-contained breathing apparatus (SCUBA) and full protective clothing. Evacuate all non-essential personnel from the danger area.

UNUSUAL FIRE AND EXPLOSION HAZARDS : No further relevant information is available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES : Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.

ENVIRONMENTAL PRECAUTIONS : Keep spilled material away from sewage/drainage systems and waterways. This product contains a U.S. EPA Reportable Quantity (RQ) substance. If amounts exceeding the Reportable Quantity are released, notification of the National Response Center (800) 424-8802 is required. See section15 for more information.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP : All clean-up personnel must be properly trained. Confine the spill and remove incompatible materials and ignition sources. Ensure adequate ventilation. Secure the source of the leak if conditions are safe. Neutralize spill and collect using an

appropriate absorbent material such as clay or vermiculite. Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING : Use with adequate ventilation. Wear proper protective equipment. Do not mix with water or acids without proper dilution and agitation to prevent a potentially violent reaction.

CONDITIONS FOR SAFE STORAGE : Store in closed, properly labeled containers. Protect containers from heat, physical damage, ignition sources and incompatible materials. Have emergency equipment for fires and spills readily available.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

TLV (THRESHOLD LIMIT VALUE) : The TLV in section in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

COMPONENT	OSHA PEL – TWA	ACGIH TLV – Ceiling	ACGIH – STEL
Potassium Hydroxide	2 mg/m^3 (Ceiling)	2 mg/m^3	2 gm/m^3 (Ceiling)
Ethylenediamine Tetraacetate 4Na salt	Not Established	Not Established	Not Established
Sodium Metasilicate	8hr Recommended: 3mg/m^3	Not Established	Not Established
b-Alanine, N-(2-carboxyethyl)-N-[3-(decyloxy)propyl]-,monosodium salt	Not Established	Not Established	Not Established

EYE PROTECTION : Wear chemical splash goggles or face shield.

SKIN PROTECTION : Minimize contact with product. Wear chemical resistant coveralls, boots, gloves, apron and/or suitable long-sleeved clothing.

RESPIRATORY PROTECTION : In case of brief exposure use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.

VENTILATION : Ensure adequate ventilation.

ADDITIONAL MEASURES : Emergency eyewash and safety shower facilities should be available in the immediate work area.

REQUIRED WORK/HYGIENE : Wash hands thoroughly after handling. Keep away from all food stuffs, beverages and feed. Do not eat, drink or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Clear blue liquid with mild odor.

ODOR : Mild odor

ODOR THRESHOLD : Not available

PH : > 12.5

MELTING POINT/FREEZING POINT : Not available

BOILING POINT : Not available

FLASHPOINT : Non flammable, non combustible

EVAPORATION RATE : Not available

FLAMMABILITY : Not applicable

LOWER FLAMMABILITY LIMIT	:	Not applicable
UPPER FLAMMABILITY LIMIT	:	Not applicable
VAPOR PRESSURE	:	Not available
VAPOR DENSITY (AIR=1)	:	Not available
RELATIVE DENSITY	:	1.07
SOLUBILITY IN WATER	:	Soluble in water
PARTITION COEFFICIENT n-OCTANOL/WATER	:	Not available
AUTOIGNITION TEMPERATURE	:	Not available
DECOMPOSITION TEMPERATURE	:	Not available

SECTION 10 – STABILITY AND REACTIVITY

STABILITY	:	Stable under recommended storage conditions.
HAZARDOUS CONDITIONS TO AVOID	:	No decomposition if used according to specifications.
INCOMPATIBLE MATERIALS	:	Keep away from strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS	:	No dangerous decomposition products known.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION	:	**Potassium Hydroxide**
ACUTE TOXICITY	:	LD50 Oral (rat): 214 mg/kg, LD50 Dermal: Not Determined. LC50 Inhalation: Not determined. When in solution, this material will affect all tissues with which it comes in contact. The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the skin, eyes, and mucous membranes. This material may cause severe burns and permanent damage to any tissue with which it comes into contact.
CARCINOGENICITY	:	This product is not classified as a carcinogen by NTP, IARC or OSHA.

TOXICOLOGICAL INFORMATION	:	**Sodium Metasilicate**
ACUTE TOXICITY	:	LD50 Oral: 1280mg/kg (Rat), 2400mg/kg (mouse)
CHRONIC TOXICITY	:	No data were available regarding chronic exposure, reproductive or teratological effects, or carcinogenicity for sodium metasilicate.
CARCINOGENICITY	:	This product is not classified as a carcinogen by NTP, IARC or OSHA.

TOXICOLOGICAL INFORMATION	:	**Ethylenediamine Tetraacetate**
ACUTE TOXICITY	:	LD50 Oral (rat): 630 - 1,260 mg/kg,
INHALATION LC50	:	No data available
DERMAL LD50	:	No data available
OTHER INFORMATION ON ACUTE TOXICITY	:	No data available

TOXICOLOGICAL INFORMATION	:	**b-Alanine, N-(2-carboxyethyl)-N-[3-(decyloxy)propyl]-,monosodium salt**
ACUTE TOXICITY	:	LD50 Oral (rat): 16,800 mg/kg, LD50 Dermal and LC50 Inhalation: Not available.
CHRONIC EFFECTS ON HUMANS	:	Not available
IRRITATION AND CORROSION	:	Skin and Eye irritant.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	:	**Potassium Hydroxide**
AQUATIC TOXICITY	:	This material is alkaline and may raise the pH of surface waters with low buffering capacity. This material has exhibited moderate toxicity to aquatic organisms.
FRESHWATER FISH TOXICITY	:	LC50 (Mosquito fish): 80 mg/L/96 hr (static bioassay in fresh water at 18-19 C) LC50 (Fathead Minnow): 179 mg/L/96 hr (static at 22.3-24.7 C)
INVERTEBRATE TOXICITY	:	EC50 (Daphnia magna): 60 mg/L/48 hr (static bioassay at 20.3-20.7 C)
FATE & TRANSPORT	:	This material will disassociate into ionic form in the aquatic environment. Natural carbon dioxide will slowly neutralize this material.
BIODEGRADATION		
BIOCONCENTRATION	:	This material does not bio-concentrate.
ADDITIONAL ECOLOGICAL INFORMATION	:	This material has exhibited slight toxicity to terrestrial organisms.

ECOLOGICAL INFORMATION	:	**Sodium Metasilicate**
ECOTOXICITY (Aquatic Toxicity)	:	This material has exhibited moderate toxicity to aquatic organisms.
BIODEGRADATION	:	This material is inorganic and not subject to biodegradation.
PERSISTENCE	:	This material is believed to persist in the environment.
BIOCONCENTRATION	:	This material is not expected to bio-concentrate in organisms.

ECOLOGICAL INFORMATION	:	**Ethylenediamine Tetraacetate**
ECOTOXICITY	:	No data available.
PERSISTENCE AND DEGRADABILITY	:	No data available.
BIOACCUMULATIVE POTENTIAL	:	No data available.

ECOLOGICAL INFORMATION	:	**b-Alanine, N-(2-carboxyethyl)-N-[3-(decyloxy)propyl]-,monosodium salt**
AQUATIC TOXICITY	:	LC50 (96 h) : 60.6 mg/l Species : Fathead minnow (Pimephales promelas). LC50 (24 h) : 100 - 250 mg/l Species : Fathead minnow (Pimephales promelas).
TOXICITY: OTHER ORGANISMS	:	No data available.
BIODEGRADABILITY	:	Inherently biodegradable, not readily biodegradable.
MOBILITY	:	No data available.
BIOACCUMULATION	:	No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL : This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous waste due to pH/corrosivity. It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from this product, should be classified as a hazardous waste

SECTION 14 – TRANSPORTATION INFORMATION

DOT/IMDG/ IATA PROPER SHIPPING NAME	:	UN-1814, POTASSIUM HYDROXIDE, SOLUTION 8 PG-II
HAZARD CLASS AND LABEL	:	8 (Corrosive)
UN NUMBER	:	UN-1814
PACKAGING GROUP	:	PG-II
EPA REPORTABLE QUANTITY (RQ)	:	1000 LBS. (454 KG) as Potassium Hydroxide 100%.
MARINE POLLUTANT	:	Not listed.
EMERGENCY RESPONSE GUIDE		ERG-154

SECTION 15 – REGULATORY INFORMATION

U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN : Not listed

TSC STATUS : The ingredients of this product are listed on TSCA (Toxic Substances Control Act) inventory (40CFR 710.)

SARA SECTION 302 : **EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA SECTION 311 HAZARD CATEGORIES (40 CFR 370): : None listed.

SARA SECTION 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

NFPA HEALTH : 3

NFPA FLAMMABILITY : 0

NFPA REACTIVITY : 0

EUROPEAN UNION REGULATORY INFORMATION:

EC CLASSIFICATION : C: Corrosive, Xn: Harmful.

DSD/DPD RISK (R) PHRASES : R34: Causes severe burns.
R22: Harmful is swallowed.

DSD/DPD SAFETY (S) PHRASES : S1/2: Keep locked up and out of reach of children.
S18: Handle and open containers with care.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/S37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accidents or if you feel unwell, seek medical advice immediately. Show label where possible.
S61: Avoid release to the environment.
S64: If swallowed, rinse mouth with water if victim is conscious.

DSD/DPD HAZARD SYMBOL : C: Corrosive, Xn: Harmful

CANADIAN REGULATORY INFORMATION

WHMIS CATEGORY : Class E: Corrosive, Class D2B: Materials that cause other toxic effects (TOXIC).
D1B: Poisonous and infectious material: Immediate and serious effects (TOXIC). Potassium Hydroxide

DOMESTIC SUBSTANCES LIST (DSL) : Listed

INGREDIENT DISCLOSURE LIST : Listed, This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the sds contains all of the information required by the CPR.

SECTION 16 – OTHER INFORMATION

DISCLAIMER : The information contained herein has been compiled from sources believed to be realiable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the

product to which it relates. Dynacco Inc. assumes no responsibility for injury to any person or property resulting from any use of the material. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.

CERCLA	:	Comprehensive Environmental Response, Compensation, and Liability Act.
EINECS	:	European Inventory of Existing Commercial Chemical Substances
IMDG	:	International Maritime Code for Dangerous Goods
IARC	:	International Agency for Research on Cancer
IATA	:	International Air Transportation Association
ACGIH	:	American Conference of Governmental Industrial Hygienists
NFPA	:	National Fire Protection Association (USA)
NTP	:	National Toxicology Program
SARA	:	Superfund Amendments and Reauthorization Act
TSCA	:	Toxic Substances Control Act
HMIS	:	Hazardous Materials Identification System (USA)
WHMIS	:	Workplace Hazardous Materials Information System
LC50	:	Lethal concentration, 50 percent
LD50	:	Lethal dose, 50 percent
STOT	:	Systemic Target Organ Toxicity
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