

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 29/06/2017 Revision date:

Version: 1.0

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

1.1. Product identifier	
Product form	: Mixture
Product name	: Custom 8151 Herbicides Mix
Product code	: AL0-130122
Product group	: Trade product

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

1.2.1. Relevant identified uses	
Main use category	: Laboratory use
Industrial/Professional use spec	: Industrial For professional use only
Use of the substance/mixture	: Certified reference material for laboratory use only
1.2.2. Uses advised against	

1.2.2. No additional information available

1.3. Details of the supplier of the safety data sheet

Phenova 6390 Joyce Dr. Suite 100 80403 Golden, CO - United States T 1-866-942-2978 - F 1-866-283-0269 info@phenova.com - www.phenova.com

1.4. Emergency telephone number

Emergency number

ChemTel Assistance (US/Canada) 1-800-255-3924 ChemTel Assistance (International) +1 813-248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11 Xi; R36 R44 R66 R67 Full text of R-phrases: see section 16

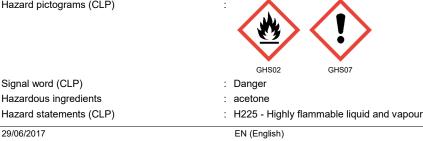
Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



1/8

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

	H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water 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 P308+P313 - IF exposed or concerned: Get medical advice/attention P403+P233 - Store in a well-ventilated place. Keep container tightly closed P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
EUH-statements	EUH044 - Risk of explosion if heated under confinement EUH066 - Repeated exposure may cause skin dryness or cracking

No labelling applicable

2.3. Other hazards

OFOTION A. First sid as

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acetone	(CAS-No.) 67-64-1 (EC-No.) 200-662-2 (EC Index-No.) 606-001-00-8	99.91	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
2,3,4,5,6-pentachlorophenol (Component)	(CAS-No.) 87-86-5 (EC-No.) 201-778-6 (EC Index-No.) 604-002-00-8	0.01	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dernal), H311 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

SECTION 4: First aid measures	
4.1. Description of first aid measure	S
First-aid measures general	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
4.3. Indication of any immediate me	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	es
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	e substance or mixture
Fire hazard	: Highly flammable liquid and vapour.
29/06/2017	EN (English)

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Explosion hazard	: May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Risk of explosion if heated under confinement.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. DO NOT fight fire when fire reaches explosives. Evacuate area.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release mea	
6.1. Personal precautions, protective e	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Noti	fy authorities if liquid enters sewers or public waters.
6.3. Methods and material for containm	ent and cleaning up
Methods for cleaning up	: Take up in absorbent material. Collect spillage.
6.4. Reference to other sections	
See Heading 8. Exposure controls and persona	I protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable. Hazardous waste due to potential risk of explosion.
Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking.
Hygiene measures	: Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Technical measures	 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.
Storage conditions	: Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.
Incompatible materials	: Direct sunlight. Heat sources.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pers	sonal protection
8.1. Control parameters	

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Either local exhaust or general room ventilation is usually required.
Personal protective equipment	: Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.
Hand protection	: Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.
Eye protection	: Chemical goggles or safety glasses. Safety glasses.
Skin and body protection	: Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.

Safety Data Sheet	
	REACH) with its amendment Regulation (EU) 2015/830
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Other information	: Do not eat, drink or smoke during use.
SECTION 9: Physical and che	emical properties
9.1. Information on basic physic	cal and chemical properties
Physical state	: Liquid
Colour	: Colourless.
Odour	: characteristic.
ЪН	: No data available
Aelting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
lash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
lammability (solid, gas)	: Highly flammable liquid and vapour
Relative density	: No data available
Solubility	: No data available
xplosive properties	: Risk of explosion if heated under confinement.
Dxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and rea	activity
I0.1. Reactivity	
lo additional information available	
0.2. Chemical stability	
lighly flammable liquid and vapour. Ma f explosion by shock, friction, fire or ot	ay form flammable/explosive vapour-air mixture. Risk of explosion if heated under confinement. Extreme ris ther sources of ignition.
10.3. Possibility of hazardous rea	actions
lot established.	
0.4. Conditions to avoid	
	emperatures. Open flame. Heat. Sparks. Overheating.
с <i>,</i> с	
0.5. Incompatible materials	
lo additional information available	
0.6. Hazardous decomposition	products
lay release flammable gases.	
ECTION 11: Toxicological in	formation
1.1. Information on toxicologica	
cute toxicity	: Not classified
2,3,4,5,6-pentachlorophenol (87-86-	5)
ATE CLP (oral)	->) 100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
	100 ppmv/4h
ATE CLP (gases)	

ATE CLP (vapours) 0.5 mg/l/4h ATE CLP (dust,mist) 0.05 mg/l/4h acetone (67-64-1) LD50 oral rat 5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) 20000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; >7426 mg/kg LD50 dermal rabbit bodyweight; Rabbit; Weight of evidence) LC50 inhalation rat (mg/l) 71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) LC50 inhalation rat (ppm) 30000 ppm/4h (Rat; Experimental value) ATE CLP (oral) 5800 mg/kg bodyweight ATE CLP (dermal) 20000 mg/kg bodyweight ATE CLP (gases) 30000 ppmv/4h

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

acetone (67-64-1)	
ATE CLP (vapours)	71 mg/l/4h
ATE CLP (dust,mist)	71 mg/l/4h
Skin corrosion/irritation	: Not classified
	Repeated exposure may cause skin dryness or cracking
Serious eye damage/irritation	: Causes serious eye irritation.
	Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
	Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
	Based on available data, the classification criteria are not met May cause cancer
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

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2,3,4,5,6-pentachlorophenol (87	·-86-5)	
LC50 fish 1	0.052 mg/l (LC50; 96 h)	
EC50 Daphnia 1	0.01 - 0.36 mg/l (EC50; 48 h)	
acetone (67-64-1)		
LC50 fish 2	5540 mg/l (LC50; EU Method C.1; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental value)	
EC50 Daphnia 2	12600 mg/l (LC50; Other; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)	

2.2. Persistence and degradability	
Custom 8151 Herbicides Mix	
Persistence and degradability	Not established.
2,3,4,5,6-pentachlorophenol (87-86-5)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.
acetone (67-64-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.43 g O□ /g substance
Chemical oxygen demand (COD)	1.92 g O□ /g substance
ThOD	2.2 g O□ /g substance
BOD (% of ThOD)	0.872 (20 days; Literature study)
12.3. Bioaccumulative potential	
Custom 8151 Herbicides Mix	
Bioaccumulative potential	Not established.
2,3,4,5,6-pentachlorophenol (87-86-5)	
BCF fish 1	770 (BCF; 768 h)
BCF fish 2	39 - 224 (BCF)
BCF other aquatic organisms 1	1250 (BCF)
Log Pow	4.07 - 5.19
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
acetone (67-64-1)	
BCF fish 1	0.69 (BCF)
29/06/2017	EN (English) 5/8

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

	th its amendment Regulation (EU) 2015/830
acetone (67-64-1)	
BCF other aquatic organisms 1	3 (BCF; BCFWIN)
Log Pow	-0.24 (Test data)
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
acetone (67-64-1)	
Surface tension	0.0237 N/m
12.5. Results of PBT and vPvB assessme	nt
No additional information available	
42.0 Other educine officiate	
12.6. Other adverse effects Additional information	: Avoid release to the environment
Additional mormation	
SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable. Hazardous waste
	due to potential risk of explosion.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / AI	
14.1. UN number	
UN-No. (ADR)	: 1993
	: 1993
UN-No. (IATA)	
UN-No. (IMDG)	: 1993 : 1993
UN-No. (ADN)	. 1995
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (ADN)	: FLAMMABLE LIQUID, N.O.S.
Transport document description (ADR)	: UN 1993 FLAMMABLE LIQUID, N.O.S. (acetonitrile(75-05-8)), 3, II, (D/E)
14.3. Packing group	
Class (ADR)	: 3
Classification code (ADR)	: F1
Class (IATA)	: 3
Class (IMDG)	: 3
Class (ADN)	: 3
Classification code (ADN)	: F1
Danger labels (ADR)	: 3
Hazard labels (IATA)	
Danger labels (IMDG)	

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Danger labels (ADN)	: 3
	3
14.4. Packing group	•
Packing group (ADR)	: 11
Packing group (IATA)	: 11
Packing group (IMDG) Packing group (ADN)	: II : II
14.5. Environmental hazards	. "
Other information	: No supplementary information available.
14.6. Special precautions for user 14.6.1. Overland transport	
Hazard identification number (Kemler No.)	: 33 : F1
Classification code (ADR)	
Orange plates	33
	1993
Special provisions (ADR)	: 274, 601, 640D
Transport category (ADR)	: 2
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
14.6.2. Transport by sea	
Special provisions (IMDG)	: 274
Limited quantities (IMDG)	: 2/4 : 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP8, TP28
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: B
14.6.3. Air transport	. 264
CAO packing instructions (IATA)	: 364 : 60L
CAO max net quantity (IATA) PCA packing instructions (IATA)	: 353
PCA Limited quantities (IATA)	: Y341
PCA Limited quantity max net quantity (IATA)	: 1541 : 1L
PCA max net quantity (IATA)	: 5L
PCA max net quantity (IATA) PCA Excepted quantities (IATA)	: 5L : E2
Special provisions (IATA)	· E2 : A3
ERG code (IATA)	: 3H
14.6.4. Inland waterway transport	274 601 6400
Special provisions (ADN)	: 274, 601, 640D : 1 L
Limited quantities (ADN)	
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01 : 1
Number of blue cones/lights (ADN)	
Carriage prohibited (ADN)	: No

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list \geq 0,1 % / SCL Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment		
No chemical safety assessment has been carried out		
SECTION 16: Other information		
Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	
Other information	: None.	

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