Issue date: 02-19-2016 Revision date: 09-12-2017 Supersedes date: 05-31-2016 Version number: 3.0



SAFETY DATA SHEET

1. Identification

Product identifier Bel-Ray 6 in 1

Product Code 301123 SDS number 6896

Other means of identification

Synonyms Old prodcut Code 99020; For package Codes 301123XXXXXX

Product Code 301123

Recommended use of the chemical and restrictions on use

Restrictions on use Lubricant Not available.

Details of manufacturer or importer

Manufacturer

Calumet Branded Products, LLC

GPO Darling Park Towers 2 201 Sussex St. Sydney AU NSW 2000 Australia

2780 Waterfront Pkwy E. Dr., Suite 200 Indianapolis, IN 46214

1 317 328 5660

CHEMTREC: 1800 069 100 (AUS)

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazardsFlammable aerosolsCategory 1Health hazardsAcute toxicity, oralCategory 4Specific target organ toxicity, single exposureCategory 2Specific target organ toxicity, repeatedCategory 2

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

Label elements, including precautionary statements

Hazard symbol(s)



Flame Health hazard Exclamation mark

Signal word Danger

Hazard statement(s) Extremely flammable aerosol. Causes skin irritation. Causes serious eye irritation. May cause

drowsiness or dizziness. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long

lasting effects.

Material name: Bel-Ray 6 in 1 SDS AUSTRALIA

Precautionary statement(s)

Prevention Keep out of reach of children. Read label before use. Obtain special instructions before use. Do not

handle until all safety precautions have been read and understood. Keep away from

heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wear eye/face protection. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the

environment. Wear protective gloves. Use personal protective equipment as required.

If medical advice is needed, have product container or label at hand. IF ON SKIN: Wash with Response

> plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get

medical advice/attention. Take off contaminated clothing and wash before reuse.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from Storage

sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Hydrotreated Light Distillates (petroleum)	64742-47-8	20 - < 40
Stoddard Solvent	8052-41-3	10 - < 20
2-butoxyethanol	111-76-2	1 - < 2
Tris(methylphenyl) Phosphate	1330-78-5	< 1
Other components below reportable levels		40 - < 50

4. First-aid measures

Description of necessary first aid measures

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.

Take off immediately all contaminated clothing. Remove contaminated clothing. Rinse skin with Skin contact

water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing

before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth. Do Ingestion

not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into

the lungs. Never give liquid to an unconscious person.

Personal protection for first-aid responders

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in

attendance.

Symptoms caused by

exposure

Diarrhea. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Irritation of nose and throat. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Material name: Bel-Ray 6 in 1 SDS AUSTRALIA

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Alcohol resistant foam. Water fog. Dry chemical powder. Dry chemicals. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire fighters

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

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Hazchem code

General fire hazards

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not

breathe fumes.

Extremely flammable aerosol.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

None

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any

incompatibilities

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls and personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits

Australia. National Workplace Ol Components	Туре	Value	-
2-butoxyethanol (CAS 111-76-2)	STEL	242 mg/m3	
		50 ppm	
	TWA	96.9 mg/m3	
		20 ppm	
Stoddard Solvent (CAS 8052-41-3)	TWA	790 mg/m3	
Australia. OELs. (Adopted Nation Environment)	al Exposure Standards for	Atmospheric Contaminants i	n the Occupational
Components	Туре	Value	
2-butoxyethanol (CAS 111-76-2)	STEL	242 mg/m3	
,		50 ppm	
	TWA	96.9 mg/m3	
		20 ppm	
Stoddard Solvent (CAS 3052-41-3)	TWA	790 mg/m3	
ACGIH			
Components	Туре	Value	Form
Hydrotreated Light Distillates (petroleum) (CAS 64742-47-8)	TWA	200 mg/m3	As Total Hydrocarbon Vapor.
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
2-butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Stoddard Solvent (CAS 8052-41-3)	TWA	100 ppm	
UK. EH40 Workplace Exposure Li	mits (WELs)		
Components	Туре	Value	
2-butoxyethanol (CAS 111-76-2)	STEL	246 mg/m3	
		50 ppm	
	TWA	123 mg/m3	
		25 ppm	
Germany. DFG MAK List (advisor Compounds in the Work Area (D		e Investigation of Health Ha	zards of Chemical
Components	Туре	Value	Form
2-butoxyethanol (CAS 111-76-2)	TWA	49 mg/m3	
		10 ppm	
Hydrotreated Light Distillates (petroleum) (CAS	TWA	5 mg/m3	Respirable aerosol fraction
64742-47-8)		350 mg/m3	Vapor.

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Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical

Compounds in the Work Area (DFG)

Components	Туре	Value	Form
		50 ppm	Vapor.

Biological limit values

Germany, TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethanol (CAS	100 mg/l	Butoxyessigsäu	Urine	*
111-76-2)		re		

^{* -} For sampling details, please see the source document.

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

^{* -} For sampling details, please see the source document.

Exposure guidelines

Australia OELs: Skin designation

2-butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece. Thermal hazards Wear appropriate thermal protective clothing, when necessary.

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as Hygiene measures

washing after handling the material and before eating, drinking, and/or smoking. Routinely wash

work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid. **Form** Aerosol. Color Not available. Odor Not available. **Odor threshold** Not available. pН Not available. Not available. Melting point/freezing point

Initial boiling point and

boiling range

> 318.2 °F (> 159 °C)

Flash point 109.4 °F (43.0 °C) Pensky-Martens Closed Cup

Evaporation rate Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower 0.6 % estimated

(%)

Flammability limit -

6 % estimated

upper (%)

Explosive limit - lower

(%)

Not available.

Explosive limit - upper

(%)

Not available.

Vapor pressureNot available.Density820.00 kg/m³Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available.

Viscosity 3 cSt

Viscosity temperature 104 °F (40 °C)

Other physical and chemical parameters

Flash point class Flammable IA

Specific gravity 0.82 VOC 22 %

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Risk of ignition.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

11. Toxicological information

Information on possible routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to

exposure

Diarrhea. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Irritation of nose

and throat. Skin irritation. May cause redness and pain.

Acute toxicity Narcotic effects. Respiratory tract irritation.

Product Species Test Results

Bel-Ray 6 in 1

<u>Acute</u> Dermal

LD50 Rabbit 26818 ml/kg estimated

	10320 mg/kg estimated
Rat	50000 g/kg estimated
Mouse	18041 ppm, 7 Hours estimated
Rat	11598 ppm, 4 Hours estimated
	2213 mg/l estimated
Guinea pig	31 g/kg estimated
Mouse	31 g/kg estimated
Rabbit	8.2 g/kg estimated
Rat	19665 mg/kg estimated
Species	Test Results
	Mouse Rat Guinea pig Mouse Rabbit Rat

2-butoxyethanol (CAS 111-76-2)

Acute Dermal LD50

LD50 Rabbit 400 mg/kg

Inhalation

LC50 Mouse 700 ppm, 7 Hours Rat 450 ppm, 4 Hours

Oral

 LD50
 Guinea pig
 1.2 g/kg

 Mouse
 1.2 g/kg

 Rabbit
 0.32 g/kg

 Rat
 560 mg/kg

Skin corrosion/irritationCauses skin irritation.Serious eyeCauses serious eye irritation.

damage/irritation

Respiratory or skin sensitization

Respiratory sensitization

Skin sensitization

Based on available data, the classification criteria are not met.

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ACGIH Carcinogens

2-BUTOXYETHANOL (EGBE) (CAS 111-76-2)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-BUTOXYETHANOL (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans. PETROLEUM SOLVENTS (CAS 8052-41-3) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity May damage fertility or the unborn child.

Specific target organ toxicity - single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity - repeated

Causes damage to organs through prolonged or repeated exposure.

exposure

Aspiration hazard Not an aspiration hazard.

^{*} Estimates for product may be based on additional component data not shown.

Chronic effects May be harmful if absorbed through skin. Prolonged inhalation may be harmful.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

Causes damage to organs through prolonged or repeated exposure.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Components		Species	Test Results
2-butoxyethanol (CAS 111	-76-2)		
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
Tris(methylphenyl) Phospl Aquatic	nate (CAS 1330-78-	5)	
Crustacea	EC50	Water flea (Daphnia magna)	2.3 - 4.5 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	0.21 - 0.32 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log

Kow)

2-butoxyethanol 0.83
Stoddard Solvent 3.16 - 7.15
Tris(methylphenyl) Phosphate 5.11

Mobility in soil No data available for this product.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal methodsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under

pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product

residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

14. Transport information

ADG

UN number 1013

UN proper shipping name CARBON DIOXIDE

Transport hazard class(es)

Class 2.2 Subsidiary risk -

Packing group Not applicable.
Environmental hazards Not available.

Hazchem code 27

Special precautions for Read safety instructions, SDS and emergency procedures before handling.

user

RID

UN number 1950

UN proper shipping name AEROSOLS, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Not applicable. Packing group

Environmental hazards

Special precautions for Read safety instructions, SDS and emergency procedures before handling.

user

IATA

UN number

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk

Packing group Not applicable.

Environmental hazards No. **ERG Code** 10L

Special precautions for

Other information

user

Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

IMDG

1950 **UN number**

UN proper shipping name AEROSOLS, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk

Packing group Not applicable.

Environmental hazards

Marine pollutant No.

EmS Not available.

Special precautions for

Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78

and the IBC Code

ADG



IATA; RID



15. Regulatory information

Safety, health and environmental regulations National regulations

Australia Medicines & Poisons Appendix E

Stoddard Solvent (CAS 8052-41-3)

Australia Medicines & Poisons Appendix I

2-butoxyethanol (CAS 111-76-2)

Australia Medicines & Poisons Schedule 5

Hydrotreated Light Distillates (petroleum) (CAS 64742-47-8)

Stoddard Solvent (CAS 8052-41-3)

High Volume Industrial Chemicals (HVIC)

2-butoxyethanol (CAS 111-76-2) Hydrotreated Light Distillates (petroleum) (CAS 64742-47-8) For advice, contact a Poisons information Centre (Phone eg Australia 131 - 126; New Zealand 03 - 4747 - 000) or a doctor (at once)., If swallowed, do NOT induce vomiting.

Second Schedule.

applies to all preparations in any concentration Exception may apply, see the regulation for relevance.

applies to all preparations in any concentration Exception may apply, see the regulation for relevance.

1000 - 9999 TONNES See the regulation for additional information. 1000 - 9999 TONNES See the regulation for additional information.

International regulations

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

 Issue date
 02-19-2016

 Revision date
 09-12-2017

Material name: Bel-Ray 6 in 1 SDS AUSTRALIA

Disclaimer

Calumet Branded Products, LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Revision information

Product and Company Identification: Synonyms

Material name: Bel-Ray 6 in 1 SDS AUSTRALIA