

POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Verdict[®] 520

HERBICIDE

ACTIVE CONSTITUENT: 520 g/L HALOXYFOP present as the haloxyfop-R methyl ester

GROUP	A	HERBICIDE
-------	----------	-----------

For the post-emergent control of a wide range of annual and perennial grass weeds in grain legume and oilseed crops, lucerne, medic and clover pasture and seed crops, forestry, bananas, citrus, grapes, pineapples, pome and stone fruit, pyrethrum, tropical fruit and nut crops as specified in the Directions For Use.

IMPORTANT: READ THE ATTACHED BOOKLET BEFORE USE.

Pack Sizes: 250ml, 1 L, 5 L, 10L, 20 L, 200 L

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre.
Phone: *Australia* 13 11 26. *New Zealand* 0800 764 766.

If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

**EMERGENCY RESPONSE
(ALL HOURS)**
RING FROM ANYWHERE IN
AUSTRALIA
1800 370 754
(LOCAL CALL FEE ONLY)

SAFETY DIRECTIONS

- Harmful if swallowed.
- Will irritate the eyes and skin.
- Avoid contact with the eyes and skin.
- Wash hands after use.
- When preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles.
- After each day's use, wash gloves, face shield or goggles and contaminated clothing.

IN A TRANSPORT
EMERGENCY ONLY
DIAL 000
FOR POLICE OR
FIRE BRIGADE

SAFETY DATA SHEET

Additional information is listed on the Safety Data Sheet for **VERDICT[®] 520 HERBICIDE** which is available from Corteva Agriscience on request. Call Customer Service Toll Free on 1-800 700 096 or visit www.corteva.com.au



®, ™ Trademarks of Corteva Agriscience and its affiliated companies.

Visit us at Corteva.com.au

DIRECTIONS FOR USE**RESTRAINTS:**

DO NOT apply to weeds which may be stressed (not actively growing) due to prolonged periods of extreme cold, moisture stress (waterlogged or drought affected), poor nutrition or previous herbicide treatment as reduced levels of control may result.

DO NOT spray if rain is likely to occur within one hour.

Table 1a. Winter crops – Canola, Chickpeas, Faba beans, Field peas, Lentils, Linola, Linseed, Lupins, Lucerne, Vetch, Medic and Clover pastures or seed crops

WEEDS CONTROLLED	WEED GROWTH STAGE	RATE (mL/ha)		CRITICAL COMMENTS
		with Uptake [®] ① Spraying Oil	with a non-ionic wetter ②	
Annual ryegrass	2 to 4 leaf	75	100	CANOLA, LINOLA AND LINSEED DO NOT apply after the 8 th leaf stage of the crop. DO NOT apply after the commencement of stem elongation.
	Early Tillering	100	100	
Barley grass	2 to 4 leaf	50	75	This means that application must not occur after the 8 th stage, or if stem elongation commences before the 8 th leaf stage, application must not occur after stem elongation has commenced.
Brome grass	Early Tillering	75	100	
Paradoxa grass	2 to 4 leaf	37.5	50	DO NOT apply more than one application of herbicide containing haloxyfop per crop. DO NOT apply after grazing.
Volunteer cereals	Early Tillering	50	75	
Wild oats WA, SA, Vic, Tas,	2 to 4 leaf	50	75	①② See GENERAL INSTRUCTIONS, spraying oils/wetters section.
Southern and Central NSW	Early Tillering	75	100	
Wild oats	2 to 4 leaf	50	75	<p><u>FIELD PEAS AND CANOLA:</u> The only oil recommended for use with Verdict[®] 520 is Uptake[®] Spraying Oil.</p> <p>Verdict[®] 520 + Lontrel[®] 750 SG + Uptake Spraying Oil are compatible and selective to canola. This tank-mix is also compatible with atrazine and selective to triazine tolerant canola.</p> <p><u>LUPINS AND FIELD PEAS:</u> Mixtures with Brodal or simazine may cause crop yellowing and separate applications are recommended.</p> <p><u>CHICKPEAS, FABA BEANS, LENTILS AND VETCH, LINOLA, LINSEED:</u> Broadleaf herbicides should not be added to Verdict[®] 520. Apply Verdict[®] 520 and broadleaf herbicides at least a week apart.</p> <p><u>LUCERNE, CLOVER OR MEDIC PASTURES:</u> If grazed or cut for hay immediately prior to treatment delay application until all grasses have fully expanded leaves. Use 75 mL + spraying oil or 100 mL + wetter/ha. (See GENERAL INSTRUCTIONS, Spraying Oils/wetters section). If silver grass (<i>Vulpia</i> spp.) is present in pasture, simazine should be tank mixed with the higher rate of Verdict[®] 520 plus a non-ionic wetter.</p>
Northern NSW & Qld	Early Tillering	75	100	

Table 1b. Winter crop growth stage application windows

CROP	CROP GROWTH STAGE
Lucerne, Medic and Clover pastures or seed crops	Apply from 2 nd trifoliolate leaf onwards. For <i>Erodium spp.</i> spraying, apply from cotyledon crop stage onwards.
Canola, Linola, Linseed	Apply from 2 nd leaf to 8 leaf stage of crop growth. DO NOT apply after the commencement of stem elongation. This means that application must not occur after the 8 leaf stage, or if stem elongation commences before the 8 leaf stage, application must not occur after stem elongation has commenced.
Chickpeas, Faba beans, Field peas, Lentils, Lupins, Vetch	Apply from 2 nd leaf, 2 nd node or 2 nd branch to prior to flowering

Table 2a. Lucerne, Medic and Clover seed crops and pastures. See table 1b for crop stages

WEEDS CONTROLLED	WEED GROWTH STAGE	RATE (mL/ha) with Uptake ^① Spraying Oil	CRITICAL COMMENTS
Prairie grass (<i>Bromus catharticus</i>)	Up to early tillering	100	<p>① See GENERAL INSTRUCTIONS, Spraying oils/wetters section.</p> <p>① Use lower rate when growing conditions and crop or pasture competition are good and when weed populations are below 100 plants/m². Use the higher rate when weed populations are above 100 plants/m² or when crop or pasture competition is poor.</p> <p>NOTE : Storksbill may not be controlled if simazine or Broadstrike[®] are tank-mixed with Verdict 520.</p> <p><u>LUCERNE, CLOVER OR MEDIC PASTURES:</u> If grazed or cut for hay immediately prior to treatment delay application until all grasses have fully expanded leaves. Use 75 mL + spraying oil or 100 mL + wetter/ha. (See GENERAL INSTRUCTIONS, Spraying Oils/wetters section). If silver grass (<i>Vulpia spp.</i>) is present in pasture, simazine should be tank mixed with the higher rate of Verdict 520 plus a non-ionic wetter.</p>
Musky or ferny leaf Storksbill: (<i>Erodium moschatum</i>) Common Crowsfoot or Common Storksbill (<i>Erodium cicutarium</i>)	Up to 6 leaf or 5 cm diameter	50 - 75 ①	
Long or shiny leaf storksbill (<i>E. botrys</i>)	Up to 8 leaf or 5 cm diameter	75-100	

Table 2b. Lucerne, Medic and Clover seed crops only - not to be used for stockfeed. See table 1b for crop stages

WEEDS CONTROLLED	WEED GROWTH STAGE	RATE (mL/ha) with Uptake ^① Spraying Oil	CRITICAL COMMENTS
Couch grass (suppression), Rhodes grass (control)	Tillering seedlings	150 + 150 ①	① For best suppression of couch or control of Rhodes grass, make 2 applications of Verdict [®] 520 2-4 weeks apart. Time second application to coincide with tillering stage of weeds and just after irrigation or significant rain. Only treat actively growing weeds which are not moisture stressed. Use these rates for control of couch and Rhodes grass
Couch grass (control) Rhodes grass (control)	Established stands	400 - 800	

Table 3a. Summer crops – Cotton, Cowpea, Lucerne, Mung bean, Navy beans, Peanuts, Soybeans, Sunflowers.

WEEDS CONTROLLED	WEED GROWTH STAGE	RATE (mL/ha) with Uptake ^① Spraying Oil	CRITICAL COMMENTS
Australian millet	2 leaf to tillering up to 15 cm	150	① See GENERAL INSTRUCTIONS, Spraying oils/wetters section.
Barnyard grass	2 to 5 leaf	100	
	Tillering up to 15 cm	150	NAVY BEANS, PEANUTS, SOYBEANS: For broadleaf weed control, Verdict [®] 520 at 150 mL/ha plus wetter may be tank mixed with Blazer (except on navy beans) or Basagran
Crowsfoot grass Green panic Johnson grass (rhizome)	2 leaf to tillering up to 15 cm	150	
Johnson grass (seedling) Liverseed grass (seedling) Mossman river grass	2 to 5 leaf	100	Tank mixtures may cause transient leaf spotting on the crop but do not normally affect yield.
	Tillering and up to 15 cm	150	
Summer grass	2 leaf to tillering up to 15 cm	150	DO NOT tank mix broadleaf herbicides with Verdict [®] 520 if grasses have begun tillering or if the grasses are under moisture stress.
Volunteer cereals	2 to 4 leaf	100	DO NOT add Uptake [®] Spraying Oil when mixing with Blazer or Basagran.
	tillering up to 15 cm	150	
			DO NOT use Blazer or Basagran tank-mixes on cowpea.

Table 3b. Summer crop growth stage application windows

Crop	Crop Growth Stage
Lucerne	Apply from 2 nd trifoliate leaf onwards
Cowpea, Mung beans, Navy beans, Soybeans	Apply from 2 nd leaf to flowering
Peanuts	Apply from 2 nd leaf to pegging
Cotton	Apply from 2 nd leaf to before the onset of flowering
Sunflowers	Apply from 2 nd leaf to head initiation

Table 4. Annual and Perennial grasses and *Erodium* spp. in Orchard, Vine and Plantation crops, Forestry, and Pyrethrum.

CROPS	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE (mL/ha) with Uptake Spraying Oil ^①	CRITICAL COMMENTS
Orchard, vine and plantation Crops including: Apples Avocado Banana Blueberry Citrus Custard apple Feijoa Grapevines Guava Kiwifruit Litchi (Lychee) Longan Mango Nashi Nut trees Passionfruit Paw paw Pear Persimmon Pineapple Rambutan Stone fruit	All growth stages	<u>Perennial grasses:</u> Couch Rhodes grass Slender rats tail grass	Established stands	400 – 800	<p>① See GENERAL INSTRUCTIONS, Spraying oils/wetters section.</p> <p>Spray should be directed to the base of the tree or vine avoiding contact with fruit and foliage.</p> <p>Spot spray: Use 25 mL to 50 mL/100 L of water. Use higher rate on late tillering mature grasses.</p> <p>Annual Grasses: Where treated in association with perennial grasses, these annual grasses will be controlled.</p>
		Buffel grass Green panic Johnson grass Kikuyu	Vegetative to early tillering	200	
		<i>Paspalum</i> spp <i>Setaria</i> spp	Late tillering	400	
		<u>Annual grasses:</u> Annual ryegrass Barley grass Barnyard grass Brome grass Crowsfoot grass Lesser canary grass Liverseed grass Mossman river grass Paradoxa grass Summer grass Volunteer cereals Wild oats	2 leaf to tillering	200	
Forestry: <i>Pinus radiata</i> <i>Eucalyptus</i> spp.					
Forestry: <i>Pinus pineaster</i>		Annual grasses as above	Vegetative to tillering	125 - 250	Forestry: For annual grasses apply lowest rate to newly emerged grasses, increasing the rate as they develop.
Pyrethrum		Barley grass Brome grass Rope twitch Barynard grass <i>Erodium</i> spp. Volunteer cereals	Vegetative to tillering	100 - 250	Pyrethrum Tasmania only: For <i>Erodium</i> spp apply 75-100mL/ha if the main weed is <i>E. botrys</i> . Use 50 - 75 mL/ha if either <i>E. cicutarium</i> or <i>E. moschatum</i> are the main weeds.

Table 5. Verdict® 520 and Select® Herbicide tank-mixes – Canola, Chickpeas, Faba beans, Field peas, Lupins, Lentils

WEEDS CONTROLLED	WEED GROWTH STAGE	RATE (mL/ha)		CRITICAL COMMENTS
		Verdict 520	Select Herbicide	
FOP/DIM susceptible Annual ryegrass + Volunteer barley Volunteer wheat Brome grass Wild oats Barley grass Phalaris	2 to 4 leaf	25	150	See GENERAL INSTRUCTIONS, Spraying oils/wetters section . Use Uptake® Spraying Oil at 500mL/100L or Hasten® at 1L/100L. Apply at the same crop growth stages as those in Table 1b Winter Crops. Lentils: Apply up to 7 node-early branching crop growth stage only.
	Early tillering	38	150	
FOP resistant Annual ryegrass + Volunteer barley Volunteer wheat Brome grass Wild oats Barley grass Phalaris	2 to 4 leaf	25	200	Lupins: Not for Qld.
	Early tillering	38	250	

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

CEREAL CROPS:

DO NOT PLANT CEREAL CROPS INTO THE TREATED AREA FOR A PERIOD OF 12 WEEKS AFTER APPLICATION.

HARVESTING WITHHOLDING PERIODS:

NOT REQUIRED WHEN USED AS DIRECTED FOR:

Canola, Chickpeas, Cotton, Cowpea, Faba beans, Field peas, Lentils, Linola, Linseed, Lupins, Mung beans, Navy beans, Orchard crops, Peanuts, Plantation crops, Soybeans, Sunflowers, Vetch or Vine crops.

DO NOT HARVEST FOR:

Medic and Cover seed crops: **7 DAYS AFTER APPLICATION**

STOCK FOOD WITHHOLDING PERIODS:

DO NOT GRAZE OR CUT FOR STOCK FOOD FOR:

Canola, Chickpeas, Cotton, Cowpea, Faba beans, Field peas, Lentils, Linola, Linseed, Lupins, Mung beans, Navy beans, Peanuts, Soybeans,

Sunflowers and Vetch: **28 DAYS AFTER APPLICATION.**

Lucerne: **21 DAYS AFTER APPLICATION.**

Medic and Clover pasture: **7 DAYS AFTER APPLICATION.**

COTTON GIN TRASH MUST NOT BE FED TO ANIMALS.

GENERAL INSTRUCTIONS

Mixing

- Add water to the spray tank to 10 cm above the level of agitation and ensure the agitation device is working vigorously. (There must be a minimum of 100 L of water in the tank before any pesticide is added.)
- If tank mixing, firstly, add any soluble liquid formulations (e.g. Lontrel® Herbicide) and allow agitation for approximately one minute.
- Then add Verdict® 520 at the point where agitation is strongest. (**Do not add Verdict® 520 through a strainer or sieve**). Allow further agitation for one minute.
- Half fill the spray tank.
- If using wettable powder or water dispersible granules, or other emulsifiable concentration formulations (e.g. Lorsban® 750 WG or Le-Mat®, these should be **added after the Verdict® 520** to the half full spray tank ensuring vigorous agitation.
- Finally add Uptake® Spraying Oil or approved alternate spraying oil/wetter. (See section on **Spraying oils/wetters**) and continue filling the tank to the required volume maintaining agitation at all times.
- Only mix sufficient solution for immediate use. Verdict® 520 and any other tank mixes should be applied immediately for best results.

Spraying Oils/wetters

① **Spraying Oils:** It is essential to add an adjuvant to Verdict® 520. Best results will be achieved with Uptake® Spraying Oil at 0.5 L/100 L of spray solution. Alternatively, other oils plus a non-ionic wetter may also be used. When other crop spraying oils are used, mix at 1 L/100 L *and add a non-ionic wetter (surfactant) at 200 mL/100 L* of spray solution. **Use of an oil is not always recommended.** See **CRITICAL COMMENTS** for specific situation recommendations.

② **Non-ionic Wetters:** When Uptake or other oils are not used, a 100% concentrate non-ionic wetting agent such as BS-1000® at 200 mL/100 L must be used along with the higher rate of Verdict® 520 as specified in the DIRECTIONS FOR USE.

Where water volumes of less than 50 L/ha are used, **DO NOT** use less than 250 mL/ha of Uptake® or 500 mL/ha for oils other than Uptake® or less than 100 mL/ha of wetter.

CANOLA, LUCERNE, MEDIC AND CLOVER PASTURES AND SEED CROPS:

When tank mixing Verdict® 520 with Lontrel herbicides (canola only) or Broadstrike® (lucerne, clover and medics), use Uptake® Spraying Oil with the lower rates of Verdict® 520 or a wetting agent with the higher rates of Verdict® 520 unless otherwise specified. When mixing Verdict® 520 with other broadleaf herbicides on these crops, **DO NOT** use an oil use a wetter instead.

FIELD PEAS AND CANOLA:

The oil recommended is Uptake® Spraying Oil. Hasten® is also recommended for use with tank-mixtures of Verdict® 520 and Select® Herbicide.

For canola, Verdict® 520 + Lontrel® 750 SG + Uptake® Spraying Oil are compatible and selective to canola. This tank-mixture is also compatible with atrazine or simazine and selective to triazine tolerant canola.

NAVY BEANS, PEANUTS, SOYBEANS:

When mixing with Blazer or Basagran **DO NOT** add spraying oil to these mixtures. **DO NOT** use these tank-mixes on cowpea.

Compatibility:

Ground use only: Verdict® 520 Herbicide can be tank mixed with:

- Insecticides: dimethoate
 Lorsban® 500 EC Insecticide
 Lorsban® 750 WG Insecticide
 omethoate
- Herbicides: atrazine
 Basagran
 Blazer
 Broadstrike® Herbicide
 Lontrel® Advanced Herbicide
 Lontrel® 750 SG
 MCPA ester (LVE) - **DO NOT** exceed 700 mL/ha of MCPA LVE
 Oryzalin
 Select® Herbicide
 simazine
 Starane® Advanced Herbicide
- Fungicides: Dithane® Rainshield® Neo Tec
- Trace elements: magnesium sulphate
 zinc sulphate

Verdict® 520 Herbicide is NOT COMPATIBLE with 2,4-D or MCPA as sodium or amine salts.

Aerial use: No product other than a recommended crop oil or wetter should be mixed with Verdict® 520 Herbicide when applied by air except for addition of Lontrel® Herbicide for use in forestry and Lontrel® 750 SG for use in canola only.

Application

Apply Verdict® 520 Herbicide in sufficient water to obtain good coverage. It should be applied by an accurately calibrated ground rig or aircraft delivering droplets with a VMD of 200-300 microns.

The following spray volumes are recommended.

- Ground application 50-150 L/ha
Aerial application 30 L/ha minimum

Use higher water volumes in orchards and in dense crops where the weeds may be shielded by the crop canopy.

CLEANING SPRAY EQUIPMENT

If broadleaf herbicides, particularly sulfonylureas, have been used in the spray equipment at any time prior to Verdict® 520, particular care should be taken to follow the directions on the relevant broadleaf herbicide label for equipment cleaning, or damage to susceptible crops may occur.

After using Verdict® 520, empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean any filters in the tank, pump, line and nozzles.

To rinse. After cleaning the tank as above, quarter fill the tank with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

To decontaminate. Before spraying cereals, maize, sorghum or other sensitive crops, wash the tank and rinse the system as above. Then quarter fill the tank and add an alkali

detergent at 500 mL/100 L of water or the powder equivalent at 500 g/100 L of water, and circulate throughout the system for at least fifteen minutes. Drain the whole system. Remove filters and nozzles and clean them separately. Finally flush the system with clean water and allow to drain. Chlorine based cleaners are not recommended.

Rinse water should be discharged onto a designated disposal area, or if this is unavailable, onto unused land away from desirable plants and water sources.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

- Verdict® 520 Herbicide damages cereals and grasses.
- **DO NOT** apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.
- Cereal crops or grasses planted within twelve weeks of application may be damaged by the residual effects of Verdict® 520 Herbicide, particularly on light and red soils.

PROTECTION OF LIVESTOCK

- **DO NOT** graze or cut treated crops for stock food except as specified under withholding periods.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

- Verdict® 520 Herbicide is toxic to fish.
- **DO NOT** contaminate streams, rivers or waterways with the chemical or used container.

RESISTANT WEEDS WARNING

GROUP	A	HERBICIDE
--------------	----------	------------------

Verdict® 520 Herbicide is a member of the aryloxyphenoxy propionate group of herbicides. The product has the acetyl CoA carboxylase inhibitor mode of action. For weed resistance management Verdict® 520 Herbicide is a Group A herbicide.

Some naturally occurring weed biotypes resistant to the product and other inhibitors of acetyl CoA carboxylase herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by the product or other inhibitors of acetyl CoA carboxylase.

Since the occurrence of resistant weeds is difficult to detect prior to use, Corteva Agriscience Australia Limited accepts no liability for any losses that may result from the failure of the product to control resistant weeds.

Strategies to minimise the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant, local Department of Agriculture, or local Corteva Agriscience representative.

STORAGE AND DISPOSAL

- Store in the closed original container in a cool, well-ventilated area. **DO NOT** store for prolonged periods in direct sunlight.
- **DO NOT** store near feedstuffs, fertilisers or seeds.

1 L label only

Rinse container before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. Dispose of at a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

5 L, 10 L, 20 L, 200 L label only

This container can be recycled if it is clean, dry, free of visible residues and has the **drumMUSTER** logo visible. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any **drumMUSTER** collection or similar container management site. The cap should not be replaced but may be taken separately. If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. **DO NOT** burn empty containers or product.

SPILL AND LEAK MANAGEMENT

Do not touch or walk through spilled material. Wear a face shield or goggles, overalls buttoned to neck and wrist, chemical resistant gloves and footwear. Stop leak when safe to do so. Dam area and prevent entry into waterways, and drains.

Small spills/leaks: Absorb with material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. Dam the area of large spills and report them to Corteva Agriscience Emergency Services at 1-800 370 754

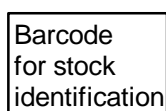
APVMA Approval No: 50643/0714

Corteva Agriscience Australia Limited* A.B.N. 24 003 771 659
67 Albert Avenue, Chatswood, NSW 2067
www.corteva.com.au

CUSTOMER SERVICE TOLL FREE

1-800 700 096

®.™ Trademarks of Corteva Agriscience and its affiliated companies.



Hazard and precautionary statements according to classification under GHS (Globally Harmonised System of Classification and Labelling): Harmful if swallowed. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. **IF SWALLOWED:** Call a POISON CENTRE/Doctor if you feel unwell. Rinse mouth